

## Union Calendar No. 88

116<sup>TH</sup> CONGRESS  
1<sup>ST</sup> SESSION

# H. R. 2500

[Report No. 116–120]

To authorize appropriations for fiscal year 2020 for military activities of the Department of Defense and for military construction, to prescribe military personnel strengths for such fiscal year, and for other purposes.

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### IN THE HOUSE OF REPRESENTATIVES

MAY 2, 2019

Mr. SMITH of Washington (for himself and Mr. THORNBERRY) (both by request) introduced the following bill; which was referred to the Committee on Armed Services

JUNE 19, 2019

Reported with amendments, committed to the Committee of the Whole House on the State of the Union, and ordered to be printed

[Strike out all after the enacting clause and insert the part printed in *italic*]

[For text of introduced bill, see copy of bill as introduced on May 2, 2019]

# **A BILL**

To authorize appropriations for fiscal year 2020 for military activities of the Department of Defense and for military construction, to prescribe military personnel strengths for such fiscal year, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
 2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 *This Act may be cited as the “National Defense Au-*  
 5 *thorization Act for Fiscal Year 2020”.*

6 **SEC. 2. ORGANIZATION OF ACT INTO DIVISIONS; TABLE OF**  
 7 **CONTENTS.**

8 *(a) DIVISIONS.—This Act is organized into four divi-*  
 9 *sions as follows:*

10 *(1) Division A—Department of Defense Author-*  
 11 *izations.*

12 *(2) Division B—Military Construction Author-*  
 13 *izations.*

14 *(3) Division C—Department of Energy National*  
 15 *Security Authorizations and Other Authorizations.*

16 *(4) Division D—Funding Tables.*

17 *(b) TABLE OF CONTENTS.—The table of contents for*  
 18 *this Act is as follows:*

*Sec. 1. Short title.*

*Sec. 2. Organization of Act into divisions; table of contents.*

*Sec. 3. Congressional defense committees.*

*DIVISION A—DEPARTMENT OF DEFENSE AUTHORIZATIONS*

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*Sec. 101. Authorization of appropriations.*

*Subtitle B—Navy Programs*

*Sec. 111. Modification of annual report on cost targets for certain aircraft car-*  
*riers.*

- Sec. 112. Repeal of requirement to adhere to Navy cost estimates for certain aircraft carriers.*
- Sec. 113. Ford class aircraft carrier support for F-35C aircraft.*
- Sec. 114. Prohibition on use of funds for reduction of aircraft carrier force structure.*
- Sec. 115. Design and construction of amphibious transport dock designated LPD-31.*
- Sec. 116. Limitation on availability of funds pending quarterly updates on the CH-53K King Stallion helicopter program.*
- Sec. 117. Limitation on availability of funds for VH-92A helicopter.*
- Sec. 118. National Defense Reserve Fleet Vessel.*

*Subtitle C—Air Force Programs*

- Sec. 121. Modification of requirement to preserve certain C-5 aircraft.*
- Sec. 122. Modification of limitation on use of funds for KC-46A aircraft.*
- Sec. 123. F-15EX aircraft program.*
- Sec. 124. Prohibition on availability of funds for reduction in KC-10 primary mission aircraft inventory.*
- Sec. 125. Limitation on availability of funds for VC-25B aircraft.*
- Sec. 126. Limitation on availability of funds for retirement of RC-135 aircraft.*
- Sec. 127. Report on aircraft fleet of the Civil Air Patrol.*

*Subtitle D—Defense-wide, Joint, and Multiservice Matters*

- Sec. 131. Economic order quantity contracting and buy-to-budget acquisition for F-35 aircraft program.*
- Sec. 132. Program requirements for the F-35 aircraft program.*
- Sec. 133. Reports on F-35 aircraft program.*

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- Sec. 201. Authorization of appropriations.*

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- Sec. 212. Temporary inclusion of joint artificial intelligence center of the Department of Defense in personnel management authority to attract experts in science and engineering.*
- Sec. 213. Joint Hypersonics Transition Office.*
- Sec. 214. Modification of proof of concept commercialization program.*
- Sec. 215. Contract for national security research studies.*
- Sec. 216. JASON Scientific Advisory Group.*
- Sec. 217. Direct Air Capture and Blue Carbon Removal Technology Program.*
- Sec. 218. Foreign malign influence operations research program.*
- Sec. 219. Sensor data integration for fifth generation aircraft.*
- Sec. 220. Documentation relating to Advanced Battle Management System.*
- Sec. 221. Documentation relating to B-52 commercial engine replacement program.*
- Sec. 222. Diversification of the science, technology, research, and engineering workforce of the Department of Defense.*

- Sec. 223. Policy on the talent management of digital expertise and software professionals.*
- Sec. 224. Development and implementation of digital engineering capability and automated software testing and evaluation.*
- Sec. 225. Process to align policy formulation and emerging technology development.*
- Sec. 226. Limitation on transition of Strategic Capabilities Office of the Department of Defense.*

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- Sec. 231. Master plan for implementation of authorities relating to science and technology reinvention laboratories.*
- Sec. 232. Master plan for infrastructure required to support research, development, test, and evaluation missions.*
- Sec. 233. Strategy and implementation plan for fifth generation information and communications technologies.*
- Sec. 234. Department-wide software science and technology strategy.*
- Sec. 235. Artificial intelligence education strategy.*
- Sec. 236. Biannual report on the Joint Artificial Intelligence Center.*
- Sec. 237. Quarterly updates on the Optionally Manned Fighting Vehicle program.*
- Sec. 238. Grants for civics education programs.*
- Sec. 239. Technology and national security fellowship.*
- Sec. 240. National Security Commission on Defense Research at Historically Black Colleges and Universities and Other Minority Institutions.*

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- Sec. 536. Increase in number of digital forensic examiners for the military criminal investigation organizations.*
- Sec. 537. Pilot programs on defense investigators in the military justice system.*
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- Sec. 555. Degree granting authority for United States Army Armament Graduate School.*
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- Sec. 1083. Extension of National Security Commission on Artificial Intelligence.*  
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*Sec. 1085. Extension of postage stamp for breast cancer research.*  
*Sec. 1086. Processes and procedures for notifications regarding special operations forces.*  
*Sec. 1087. Assessment of standards, processes, procedures, and policy relating to civilian casualties.*  
*Sec. 1088. Disposal of IPv4 addresses.*  
*Sec. 1089. Securing American science and technology.*  
*Sec. 1090. Standardized policy guidance for calculating aircraft operation and sustainment costs.*  
*Sec. 1091. Special Federal Aviation Regulation Working Group.*

#### TITLE XI—CIVILIAN PERSONNEL MATTERS

- Sec. 1101. Defense Advanced Research Projects Agency personnel management authority.*  
*Sec. 1102. Modification of probationary period for certain Department of Defense employees.*  
*Sec. 1103. Civilian personnel management.*  
*Sec. 1104. One-year extension of temporary authority to grant allowances, benefits, and gratuities to civilian personnel on official duty in a combat zone.*  
*Sec. 1105. One-year extension of authority to waive annual limitation on premium pay and aggregate limitation on pay for federal civilian employees working overseas.*  
*Sec. 1106. Performance of civilian functions by military personnel.*  
*Sec. 1107. Extension of direct hire authority for domestic industrial base facilities and Major Range and Test Facilities Base.*  
*Sec. 1108. Authority to provide additional allowances and benefits for certain Defense Clandestine Service employees.*  
*Sec. 1109. Prohibited personnel practices.*  
*Sec. 1110. Enhancement of antidiscrimination protections for Federal employees.*  
*Sec. 1111. Modification of direct hire authorities for the Department of Defense.*  
*Sec. 1112. Permitted disclosures by whistleblowers.*

#### TITLE XII—MATTERS RELATING TO FOREIGN NATIONS

##### Subtitle A—Assistance and Training

- Sec. 1201. Modification of authority to build capacity of foreign security forces.*  
*Sec. 1202. Modification and extension of cross servicing agreements for loan of personnel protection and personnel survivability equipment in coalition operations.*  
*Sec. 1203. Modification of quarterly report on obligation and expenditure of funds for security cooperation programs and activities.*  
*Sec. 1204. Integration of gender perspectives and meaningful participation by women in security cooperation authorities.*

##### Subtitle B—Matters Relating to Afghanistan and Pakistan

- Sec. 1211. Extension and modification of authority for reimbursement of certain coalition nations for support provided to United States military operations.*  
*Sec. 1212. Modification and Extension of Afghan Special Immigrant Visa Program.*

- Sec. 1213. Extension of authority to transfer defense articles and provide defense services to the military and security forces of Afghanistan.*
- Sec. 1214. Extension and modification of authority to acquire products and services produced in countries along a major route of supply to Afghanistan.*
- Sec. 1215. Authority for certain payments to redress injury and loss in Afghanistan, Iraq, Syria, Somalia, Libya, and Yemen.*
- Sec. 1216. Extension of semiannual report on enhancing security and stability in Afghanistan.*

*Subtitle C—Matters Relating to Syria, Iraq, and Iran*

- Sec. 1221. Modification of authority to provide assistance to counter the Islamic State of Iraq and Syria.*
- Sec. 1222. Extension and modification of authority to provide assistance to the vetted Syrian opposition.*
- Sec. 1223. Extension and modification of authority to support operations and activities of the Office of Security Cooperation in Iraq.*
- Sec. 1224. Prohibition on provision of weapons and other forms of support to certain organizations.*
- Sec. 1225. Rule of construction relating to use of military force against Iran.*
- Sec. 1226. Sense of Congress on support for Ministry of Peshmerga forces of the Kurdistan Region of Iraq.*

*Subtitle D—Matters Relating to Russia*

- Sec. 1231. Prohibition on the use of funds to suspend, terminate, or withdraw the United States from the Open Skies Treaty.*
- Sec. 1232. Extension of limitation on military cooperation between the United States and Russia.*
- Sec. 1233. Prohibition on availability of funds relating to sovereignty of Russia over Crimea.*
- Sec. 1234. Modification and extension of Ukraine Security Assistance Initiative.*
- Sec. 1235. Report on treaties relating to nuclear arms control.*
- Sec. 1236. Sense of Congress on updating and modernizing existing agreements to avert miscalculation between the United States and Russia.*
- Sec. 1237. Sense of Congress on support for Georgia.*
- Sec. 1238. Sense of Congress on support for Estonia, Latvia, and Lithuania.*

*Subtitle E—Matters Relating to the Indo-Pacific Region*

- Sec. 1241. Modification of Indo-Pacific Maritime Security Initiative.*
- Sec. 1242. Extension and modification of report on military and security developments involving North Korea.*
- Sec. 1243. Limitation on use of funds to reduce the total number of members of the Armed Forces serving on active duty who are deployed to South Korea.*
- Sec. 1244. Report on direct, indirect, and burden-sharing contributions of Japan and South Korea.*
- Sec. 1245. Report on strategy on the Philippines.*
- Sec. 1246. Modification of annual report on military and security developments involving the People's Republic of China.*
- Sec. 1247. Modification of annual report on military and security developments involving the People's Republic of China.*
- Sec. 1248. Sense of Congress on Taiwan.*
- Sec. 1249. Enhancing defense cooperation with Singapore.*

*Subtitle F—Matters Relating to Europe and NATO*

- Sec. 1251. Extension and modification of NATO Special Operations Headquarters.*
- Sec. 1252. Modification and extension of future years plan and planning transparency for the European Deterrence Initiative.*
- Sec. 1253. Protection of European Deterrence Initiative funds from diversion for other purposes.*
- Sec. 1254. Statement of policy on United States military investment in Europe.*
- Sec. 1255. Limitation on transfer of F-35 aircraft to Turkey.*
- Sec. 1256. Report on value of investments in dual use infrastructure projects by NATO member states.*
- Sec. 1257. Sense of Congress on support for Poland.*

*Subtitle G—Other Matters*

- Sec. 1261. Sense of Congress on United States partners and allies.*
- Sec. 1262. Modification to report on legal and policy frameworks for the use of military force.*
- Sec. 1263. Limitation on availability of certain funds until report submitted on Department of Defense awards and disciplinary action as a result of the 2017 incident in Niger.*
- Sec. 1264. Independent assessment of sufficiency of resources available to United States Southern Command and United States Africa Command.*
- Sec. 1265. Rule of construction relating to use of military force.*
- Sec. 1266. Rule of construction relating to use of military force against Venezuela.*
- Sec. 1267. Sense of Congress on acquisition by Turkey of Patriot system.*

*Subtitle H—Baltic Reassurance Act*

- Sec. 1271. Findings.*
- Sec. 1272. Sense of Congress.*
- Sec. 1273. Defense assessment.*
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**TITLE XIII—COOPERATIVE THREAT REDUCTION**

- Sec. 1301. Funding allocations.*
- Sec. 1302. Specification of cooperative threat reduction funds.*

**TITLE XIV—OTHER AUTHORIZATIONS***Subtitle A—Military Programs*

- Sec. 1401. Working capital funds.*
- Sec. 1402. Chemical agents and munitions destruction, defense.*
- Sec. 1403. Drug interdiction and counter-drug activities, defense-wide.*
- Sec. 1404. Defense Inspector General.*
- Sec. 1405. Defense health program.*
- Sec. 1406. National defense sealift fund.*

*Subtitle B—Other Matters*

- Sec. 1411. Authority for transfer of funds to joint Department of Defense-Department of Veterans Affairs medical facility demonstration fund for Captain James A. Lovell Health Care Center, Illinois.*
- Sec. 1412. Authorization of appropriations for Armed Forces Retirement Home.*

*TITLE XV—AUTHORIZATION OF ADDITIONAL APPROPRIATIONS FOR  
OVERSEAS CONTINGENCY OPERATIONS*

*Subtitle A—Authorization of Appropriations*

- Sec. 1501. Purpose.*
- Sec. 1502. Procurement.*
- Sec. 1503. Research, development, test, and evaluation.*
- Sec. 1504. Operation and maintenance.*
- Sec. 1505. Military personnel.*
- Sec. 1506. Working capital funds.*
- Sec. 1507. Drug interdiction and counter-drug activities, defense-wide.*
- Sec. 1508. Defense Inspector General.*
- Sec. 1509. Defense Health Program.*

*Subtitle B—Financial Matters*

- Sec. 1511. Treatment as additional authorizations.*
- Sec. 1512. Special transfer authority.*

*Subtitle C—Other Matters*

- Sec. 1521. Afghanistan Security Forces Fund.*

*TITLE XVI—STRATEGIC PROGRAMS, CYBER, AND INTELLIGENCE  
MATTERS*

*Subtitle A—Space Activities*

- Sec. 1601. National Security Space Launch program.*
- Sec. 1602. Preparation to implement plan for use of allied launch vehicles.*
- Sec. 1603. Annual determination on plan on full integration and exploitation of  
overhead persistent infrared capability.*
- Sec. 1604. Space-based environmental monitoring mission requirements.*
- Sec. 1605. Prototype program for multi-global navigation satellite system receiver  
development.*
- Sec. 1606. Commercial space situational awareness capabilities.*
- Sec. 1607. Independent study on plan for deterrence in space.*
- Sec. 1608. Resilient enterprise ground architecture.*

*Subtitle B—Defense Intelligence and Intelligence-Related Activities*

- Sec. 1611. Modifications to ISR Integration Council and annual briefing require-  
ments.*
- Sec. 1612. Survey and report on alignment of intelligence collections capabilities  
and activities with Department of Defense requirements.*
- Sec. 1613. Modification of annual authorization of appropriations for National  
Flagship Language Initiative.*

*Subtitle C—Cyberspace-Related Matters*

- Sec. 1621. Notification requirements for sensitive military cyber operations.*
- Sec. 1622. Quarterly cyber operations briefings.*
- Sec. 1623. Cyber posture review.*
- Sec. 1624. Tier 1 exercise of support to civil authorities for a cyber incident.*
- Sec. 1625. Evaluation of cyber vulnerabilities of major weapon systems of the De-  
partment of Defense.*
- Sec. 1626. Extension of the Cyberspace Solarium Commission.*

- Sec. 1627. Authority to use operation and maintenance funds for cyber operations-peculiar capability development projects.*
- Sec. 1628. Notification of delegation of authorities to the Secretary of Defense for military operations in cyberspace.*
- Sec. 1629. Limitation of funding for Consolidated Afloat Networks and Enterprise Services.*
- Sec. 1630. Annual military cyberspace operations report.*
- Sec. 1631. Report on synchronization of efforts relating to cybersecurity in the Defense Industrial Base.*
- Sec. 1632. Briefings on the status of the National Security Agency and United States Cyber Command partnership.*

*Subtitle D—Nuclear Forces*

- Sec. 1641. Improvement to annual report on the modernization of the nuclear weapons enterprise.*
- Sec. 1642. Briefings on meetings held by the Nuclear Weapons Council.*
- Sec. 1643. Elimination of conventional requirement for long-range standoff weapon.*
- Sec. 1644. Extension of annual briefing on the costs of forward-deploying nuclear weapons in Europe.*
- Sec. 1645. Ten-year extension of prohibition on availability of funds for mobile variant of ground-based strategic deterrent missile.*
- Sec. 1646. Prohibition on availability of funds for deployment of low-yield ballistic missile warhead.*
- Sec. 1647. Report on military-to-military dialogue to reduce the risk of miscalculation leading to nuclear war.*
- Sec. 1648. Plan on nuclear command, control, and communications systems.*
- Sec. 1649. Independent study on policy of no-first-use of nuclear weapons.*
- Sec. 1650. Independent study on risks of nuclear terrorism and nuclear war.*

*Subtitle E—Missile Defense Programs*

- Sec. 1661. National missile defense policy.*
- Sec. 1662. Development of hypersonic and ballistic missile tracking space sensor payload.*
- Sec. 1663. Requirement for testing of redesigned kill vehicle prior to production.*
- Sec. 1664. Development of space-based ballistic missile intercept layer.*
- Sec. 1665. Organization, authorities, and billets of the Missile Defense Agency.*
- Sec. 1666. Missile defense interceptor site in contiguous United States.*
- Sec. 1667. Missile defense radar in Hawaii.*
- Sec. 1668. Limitation on availability of funds for lower tier air and missile sensor.*
- Sec. 1669. Command and control, battle management, and communications program.*
- Sec. 1670. Annual assessment of ballistic missile defense system.*

*Subtitle F—Other Matters*

- Sec. 1681. Modification to reports on certain solid rocket motors.*
- Sec. 1682. Repeal of review requirement for ammonium perchlorate report.*
- Sec. 1683. Repeal of requirement for commission on electromagnetic pulse attacks and similar events.*
- Sec. 1684. Conventional prompt global strike weapon system.*

*DIVISION B—MILITARY CONSTRUCTION AUTHORIZATIONS*

- Sec. 2001. Short title.*  
*Sec. 2002. Expiration of authorizations and amounts required to be specified by law.*  
*Sec. 2003. Effective date.*

*TITLE XXI—ARMY MILITARY CONSTRUCTION*

- Sec. 2101. Authorized Army construction and land acquisition projects.*  
*Sec. 2102. Family housing.*  
*Sec. 2103. Authorization of appropriations, Army.*  
*Sec. 2104. Modification of authority to carry out certain fiscal year 2019 projects.*

*TITLE XXII—NAVY MILITARY CONSTRUCTION*

- Sec. 2201. Authorized Navy construction and land acquisition projects.*  
*Sec. 2202. Family housing.*  
*Sec. 2203. Improvements to military family housing units.*  
*Sec. 2204. Authorization of appropriations, Navy.*  
*Sec. 2205. Modification of authority to carry out certain fiscal year 2017 project.*

*TITLE XXIII—AIR FORCE MILITARY CONSTRUCTION*

- Sec. 2301. Authorized Air Force construction and land acquisition projects.*  
*Sec. 2302. Family housing.*  
*Sec. 2303. Improvements to military family housing units.*  
*Sec. 2304. Authorization of appropriations, Air Force.*  
*Sec. 2305. Modification of authorities to carry out phased Joint Intelligence Analysis Complex consolidation.*  
*Sec. 2306. Modification of authority to carry out certain fiscal year 2016 project.*  
*Sec. 2307. Modification of authority to carry out certain fiscal year 2017 project.*  
*Sec. 2308. Modification of authority to carry out certain fiscal year 2018 projects.*  
*Sec. 2309. Modification of authority to carry out certain fiscal year 2019 projects.*

*TITLE XXIV—DEFENSE AGENCIES MILITARY CONSTRUCTION*

- Sec. 2401. Authorized Defense Agencies construction and land acquisition projects.*  
*Sec. 2402. Authorized energy resiliency and energy conservation projects.*  
*Sec. 2403. Authorization of appropriations, Defense Agencies.*

*TITLE XXV—INTERNATIONAL PROGRAMS**Subtitle A—North Atlantic Treaty Organization Security Investment Program*

- Sec. 2501. Authorized NATO construction and land acquisition projects.*  
*Sec. 2502. Authorization of appropriations, NATO.*

*Subtitle B—Host Country In-Kind Contributions*

- Sec. 2511. Republic of Korea funded construction projects.*

TITLE XXVI—GUARD AND RESERVE FORCES FACILITIES

- Sec. 2601. Authorized Army National Guard construction and land acquisition projects.*
- Sec. 2602. Authorized Army Reserve construction and land acquisition projects.*
- Sec. 2603. Authorized Navy Reserve and Marine Corps Reserve construction and land acquisition projects.*
- Sec. 2604. Authorized Air National Guard construction and land acquisition projects.*
- Sec. 2605. Authorized Air Force Reserve construction and land acquisition projects.*
- Sec. 2606. Authorization of appropriations, National Guard and Reserve.*

TITLE XXVII—BASE REALIGNMENT AND CLOSURE ACTIVITIES

- Sec. 2701. Authorization of appropriations for base realignment and closure activities funded through Department of Defense base closure account.*

TITLE XXVIII—MILITARY CONSTRUCTION GENERAL PROVISIONS

*Subtitle A—Military Construction Program Changes*

- Sec. 2801. Prohibition on use of military construction funds for construction of a wall, fence, or other physical barrier along the southern border of the United States.*
- Sec. 2802. Modification and clarification of construction authority in the event of a declaration of war or national emergency.*
- Sec. 2803. Inclusion of information regarding military installation resilience in master plans for major military installations.*
- Sec. 2804. Improved consultation with tribal governments when proposed military construction projects potentially impact Indian tribes.*
- Sec. 2805. Amendment of Unified Facilities Criteria to promote military installation resilience, energy resilience, energy and climate resiliency, and cyber resilience.*
- Sec. 2806. Modification to Department of Defense Form 1391 regarding consideration of potential long-term adverse environmental effects.*

*Subtitle B—Military Family Housing Reforms*

- Sec. 2811. Enhanced protections for members of the Armed Forces and their dependents residing in privatized military housing units.*
- Sec. 2812. Prohibition on use of nondisclosure agreements in connection with leases of military housing constructed or acquired using alternative authority for acquisition and improvement of military housing.*
- Sec. 2813. Authority to furnish certain services in connection with use of alternative authority for acquisition and improvement of military housing.*
- Sec. 2814. Modification to requirements for window fall prevention devices in military family housing units.*
- Sec. 2815. Assessment of hazards in Department of Defense housing.*
- Sec. 2816. Development of process to identify and address environmental health hazards in Department of Defense housing.*

- Sec. 2817. Report on civilian personnel shortages for appropriate oversight of management of military housing constructed or acquired using alternative authority for acquisition and improvement of military housing.*
- Sec. 2818. Inspector General review of Department of Defense oversight of privatized military housing.*
- Sec. 2819. Department of Defense inspection authority regarding privatized military housing.*
- Sec. 2820. Improvement of privatized military housing.*

*Subtitle C—Real Property and Facilities Administration*

- Sec. 2831. Improved energy security for main operating bases in Europe.*
- Sec. 2832. Access to Department of Defense facilities for credentialed transportation workers.*

*Subtitle D—Land Conveyances*

- Sec. 2841. Land conveyance, Hill Air Force Base, Utah.*
- Sec. 2842. Release of conditions and reversionary interest, Camp Joseph T. Robinson, Arkansas.*
- Sec. 2843. Modification of authorized uses of certain property conveyed by the United States in Los Angeles, California.*

*Subtitle E—Military Land Withdrawals*

- Sec. 2851. Public notice regarding upcoming periods of Secretary of the Navy management of Shared Use Area of the Johnson Valley Off-Highway Vehicle Recreation Area.*

*Subtitle F—White Sands National Park and White Sands Missile Range*

- Sec. 2861. Short title.*
- Sec. 2862. Definitions.*
- Sec. 2863. Findings.*
- Sec. 2864. Establishment of White Sands National Park in the State of New Mexico.*
- Sec. 2865. Transfers of administrative jurisdiction related to the National Park and White Sands Missile Range.*
- Sec. 2866. Boundary modifications related to the National Park and Missile Range.*

*Subtitle G—Other Matters*

- Sec. 2871. Installation and maintenance of fire extinguishers in Department of Defense facilities.*
- Sec. 2872. Definition of community infrastructure for purposes of military base reuse studies and community planning assistance.*
- Sec. 2873. Report on vulnerabilities from sea level rise to certain military installations located outside the continental United States.*
- Sec. 2874. Black start exercises at Joint Bases.*

**TITLE XXIX—OVERSEAS CONTINGENCY OPERATIONS MILITARY CONSTRUCTION**

- Sec. 2901. Authorized Army construction and land acquisition projects.*
- Sec. 2902. Authorized Navy construction and land acquisition projects.*
- Sec. 2903. Authorized Air Force construction and land acquisition projects.*

- Sec. 2904. Authorized defense agencies construction and land acquisition projects.*  
*Sec. 2905. Authorization of appropriations.*

*TITLE XXX—AUTHORIZATION OF EMERGENCY MILITARY  
CONSTRUCTION*

- Sec. 3001. Authorization of emergency Navy construction and land acquisition projects.*  
*Sec. 3002. Authorization of emergency Air Force construction and land acquisition projects.*  
*Sec. 3003. Authorization of emergency Army National Guard and Army Reserve construction and land acquisition projects.*

*DIVISION C—DEPARTMENT OF ENERGY NATIONAL SECURITY  
AUTHORIZATIONS AND OTHER AUTHORIZATIONS*

*TITLE XXXI—DEPARTMENT OF ENERGY NATIONAL SECURITY  
PROGRAMS*

*Subtitle A—National Security Programs and Authorizations*

- Sec. 3101. National Nuclear Security Administration.*  
*Sec. 3102. Defense environmental cleanup.*  
*Sec. 3103. Other defense activities.*  
*Sec. 3104. Nuclear energy.*

*Subtitle B—Program Authorizations, Restrictions, Limitations, and Other  
Matters*

- Sec. 3111. Personnel levels of the Office of the Administrator for Nuclear Security.*  
*Sec. 3112. Office of Cost Estimating and Program Evaluation.*  
*Sec. 3113. Clarification of certain Stockpile Responsiveness Program objectives.*  
*Sec. 3114. Modification to plutonium pit production capacity.*  
*Sec. 3115. Annual certification of shipments to Waste Isolation Pilot Plant.*  
*Sec. 3116. Repeal of limitation on availability of funds for acceleration of nuclear weapons dismantlement.*  
*Sec. 3117. Elimination of limitation on availability of funds relating to submission of annual reports on unfunded priorities.*  
*Sec. 3118. Program for research and development of advanced naval nuclear fuel system based on low-enriched uranium.*  
*Sec. 3119. Replacement of W78 warhead.*  
*Sec. 3120. National Laboratory Jobs Access Program.*

*TITLE XXXII—DEFENSE NUCLEAR FACILITIES SAFETY BOARD*

- Sec. 3201. Authorization.*  
*Sec. 3202. Improvements to Defense Nuclear Facilities Safety Board.*

*TITLE XXXIV—NAVAL PETROLEUM RESERVES*

- Sec. 3401. Authorization of appropriations.*

*TITLE XXXV—MARITIME MATTERS*

*Subtitle A—Maritime Administration*

- Sec. 3501. Authorization of the Maritime Administration.*

*Sec. 3502. Reauthorization of Maritime Security Program.*  
*Sec. 3503. Maritime Occupational Safety and Health Advisory Committee.*

*Subtitle B—Tanker Security Fleet*

*Sec. 3511. Tanker Security Fleet.*

*DIVISION D—FUNDING TABLES*

*Sec. 4001. Authorization of amounts in funding tables.*

*TITLE XLI—PROCUREMENT*

*Sec. 4101. Procurement.*  
*Sec. 4102. Procurement for overseas contingency operations.*

*TITLE XLII—RESEARCH, DEVELOPMENT, TEST, AND EVALUATION*

*Sec. 4201. Research, development, test, and evaluation.*  
*Sec. 4202. Research, development, test, and evaluation for overseas contingency operations.*

*TITLE XLIII—OPERATION AND MAINTENANCE*

*Sec. 4301. Operation and maintenance.*  
*Sec. 4302. Operation and maintenance for overseas contingency operations.*

*TITLE XLIV—MILITARY PERSONNEL*

*Sec. 4401. Military personnel.*  
*Sec. 4402. Military personnel for overseas contingency operations.*

*TITLE XLV—OTHER AUTHORIZATIONS*

*Sec. 4501. Other authorizations.*  
*Sec. 4502. Other authorizations for overseas contingency operations.*

*TITLE XLVI—MILITARY CONSTRUCTION*

*Sec. 4601. Military construction.*  
*Sec. 4602. Military construction for overseas contingency operations.*

*TITLE XLVII—DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS*

*Sec. 4701. Department of Energy national security programs.*

**1 SEC. 3. CONGRESSIONAL DEFENSE COMMITTEES.**

**2** *In this Act, the term “congressional defense commit-*  
**3** *tees” has the meaning given that term in section 101(a)(16)*  
**4** *of title 10, United States Code.*

1 ***DIVISION A—DEPARTMENT OF***  
2 ***DEFENSE AUTHORIZATIONS***  
3 ***TITLE I—PROCUREMENT***  
4 ***Subtitle A—Authorization of***  
5 ***Appropriations***

6 ***SEC. 101. AUTHORIZATION OF APPROPRIATIONS.***

7 *Funds are hereby authorized to be appropriated for fis-*  
8 *cal year 2020 for procurement for the Army, the Navy and*  
9 *the Marine Corps, the Air Force, and Defense-wide activi-*  
10 *ties, as specified in the funding table in section 4101.*

11 ***Subtitle B—Navy Programs***

12 ***SEC. 111. MODIFICATION OF ANNUAL REPORT ON COST***  
13 ***TARGETS FOR CERTAIN AIRCRAFT CARRIERS.***

14 *Section 126(c) of the National Defense Authorization*  
15 *Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat.*  
16 *2035) is amended—*

17 *(1) in the subsection heading, by striking “AND*  
18 *CVN–80” and inserting “, CVN–80, AND CVN–81”;*

19 *(2) in paragraph (1), by striking “costs de-*  
20 *scribed in subsection (b) for the CVN–79 and CVN–*  
21 *80” and inserting “cost targets for the CVN–79, the*  
22 *CVN–80, and the CVN–81”; and*

23 *(3) in paragraph (2)—*

1           (A) in the matter preceding subparagraph  
2           (A), by striking “ and the CVN-80” and insert-  
3           ing “, the CVN-80, and the CVN-81”

4           (B) in subparagraph (A), by striking “costs  
5           described in subsection (b)” and inserting “cost  
6           targets”;

7           (C) in subparagraph (F), by striking “costs  
8           specified in subsection (b)” and inserting “cost  
9           targets”; and

10          (D) in subparagraph (G), by striking “costs  
11          specified in subsection (b)” and inserting “cost  
12          targets”.

13 **SEC. 112. REPEAL OF REQUIREMENT TO ADHERE TO NAVY**  
14 **COST ESTIMATES FOR CERTAIN AIRCRAFT**  
15 **CARRIERS.**

16          Section 122 of the John Warner National Defense Au-  
17          thorization Act for Fiscal Year 2007 (Public Law 109-364;  
18          120 Stat. 2104), as most recently amended by section  
19          121(a) of the National Defense Authorization Act for Fiscal  
20          Year 2018 (Public Law 115-91; 131 Stat. 1309), is re-  
21          pealed.

22 **SEC. 113. FORD CLASS AIRCRAFT CARRIER SUPPORT FOR F-**  
23 **35C AIRCRAFT.**

24          Before accepting delivery of the Ford class aircraft car-  
25          rier designated CVN-79, the Secretary of the Navy shall

1 *ensure that the aircraft carrier is capable of operating and*  
2 *deploying with the F-35C aircraft.*

3 **SEC. 114. PROHIBITION ON USE OF FUNDS FOR REDUCTION**  
4 **OF AIRCRAFT CARRIER FORCE STRUCTURE.**

5 *None of the funds authorized to be appropriated by this*  
6 *Act or otherwise made available for fiscal year 2020 for the*  
7 *Department of Defense may be obligated or expended to re-*  
8 *duce the number of operational aircraft carriers of the Navy*  
9 *below the number specified in section 8062(b) of title 10,*  
10 *United States Code.*

11 **SEC. 115. DESIGN AND CONSTRUCTION OF AMPHIBIOUS**  
12 **TRANSPORT DOCK DESIGNATED LPD-31.**

13 *(a) IN GENERAL.—Using funds authorized to be ap-*  
14 *propriated for the Department of Defense for Shipbuilding*  
15 *and Conversion, Navy, the Secretary of the Navy may enter*  
16 *into a contract, beginning with the fiscal year 2020 pro-*  
17 *gram year, for the design and construction of the amphib-*  
18 *ious transport dock designated LPD-31.*

19 *(b) USE OF INCREMENTAL FUNDING.—With respect to*  
20 *the contract entered into under subsection (a), the Secretary*  
21 *may use incremental funding to make payments under the*  
22 *contract.*

23 *(c) CONDITION FOR OUT-YEAR CONTRACT PAY-*  
24 *MENTS.—The contract entered into under subsection (a)*  
25 *shall provide that any obligation of the United States to*

1 *make a payment under such contract for any fiscal year*  
2 *after fiscal year 2020 is subject to the availability of appro-*  
3 *priations for that purpose for such later fiscal year.*

4 **SEC. 116. LIMITATION ON AVAILABILITY OF FUNDS PEND-**  
5 **ING QUARTERLY UPDATES ON THE CH-53K**  
6 **KING STALLION HELICOPTER PROGRAM.**

7 *(a) LIMITATION.—Of the funds authorized to be appro-*  
8 *priated by this Act or otherwise made available for fiscal*  
9 *year 2020 for aircraft procurement, Navy, for the CH-53K*  
10 *King Stallion helicopter program, not more than 50 percent*  
11 *may be obligated or expended until a period of 30 days*  
12 *has elapsed following the date on which the Secretary of*  
13 *the Navy provides the first briefing required under sub-*  
14 *section (b).*

15 *(b) QUARTERLY BRIEFINGS REQUIRED.—*

16 *(1) IN GENERAL.—Beginning not later than Oc-*  
17 *tober 1, 2019, and on a quarterly basis thereafter*  
18 *through October 1, 2022, the Secretary of the Navy*  
19 *shall provide to the Committee on Armed Services of*  
20 *the House of Representatives a briefing on the*  
21 *progress of the CH-53K King Stallion helicopter pro-*  
22 *gram.*

23 *(2) ELEMENTS.—Each briefing under paragraph*  
24 *(1) shall include, with respect to the CH-53K King*  
25 *Stallion helicopter program, the following:*

1                   (A) *An overview of the program schedule.*

2                   (B) *A statement of the total cost of the pro-*  
3 *gram as of the date of the briefing, including the*  
4 *costs of development, testing, and production.*

5                   (C) *A comparison of the total cost of the*  
6 *program relative to the approved acquisition*  
7 *program baseline.*

8                   (D) *An assessment of flight testing under*  
9 *the program, including identification of the*  
10 *number of test events have been conducted on-*  
11 *time in accordance with the joint integrated pro-*  
12 *gram schedule.*

13                  (E) *An update on the correction of technical*  
14 *deficiencies under the program, including—*

15                   (i) *identification of the technical defi-*  
16 *ciencies that have been corrected as of the*  
17 *date of the briefing;*

18                   (ii) *identification of the technical defi-*  
19 *ciencies that have been discovered, but not*  
20 *corrected, as of such date;*

21                   (iii) *an estimate of the total cost of*  
22 *correcting technical deficiencies under the*  
23 *program; and*

24                   (iv) *an explanation of any significant*  
25 *deviations from the testing and program*

1                   *schedule that are anticipated due to the dis-*  
2                   *covery and correction of technical defi-*  
3                   *ciencies.*

4 **SEC. 117. LIMITATION ON AVAILABILITY OF FUNDS FOR VH-**  
5 **92A HELICOPTER.**

6           (a) *LIMITATION.*—*Of the funds authorized to be appro-*  
7 *priated by this Act or otherwise made available for fiscal*  
8 *year 2020 for procurement for the VH–92A helicopter, not*  
9 *more than 75 percent may be obligated or expended until*  
10 *the date on which the Secretary of Navy submits to the*  
11 *Committee on Armed Services of the House of Representa-*  
12 *tives the report required under subsection (b).*

13           (b) *REPORT REQUIRED.*—*The Secretary of the Navy*  
14 *shall submit to the Committee on Armed Services of the*  
15 *House of Representatives a report assessing the status of*  
16 *the VH–92A helicopter program industrial base and the po-*  
17 *tential impact of proposed manufacturing base changes on*  
18 *the acquisition program. The report shall include a descrip-*  
19 *tion of—*

20                   (1) *estimated effects on the manufacturing readi-*  
21 *ness level of the VH–92 program due to planned*  
22 *changes to the program manufacturing base;*

23                   (2) *the estimated costs and assessment of cost*  
24 *risk to the program due to planned changes to the*  
25 *program manufacturing base;*

1           (3) any estimated schedule impacts, including  
2           impacts on delivery dates for the remaining low-rate  
3           initial production lots and full rate production, re-  
4           sulting from changes to the manufacturing base;

5           (4) an assessment of the effect of changes to the  
6           manufacturing base on VH-92A sustainment; and

7           (5) the impact of such changes on production  
8           and sustainment capacity for the MH-60 and CH-  
9           53K helicopters of the Navy.

10 **SEC. 118. NATIONAL DEFENSE RESERVE FLEET VESSEL.**

11           (a) *IN GENERAL.*—Subject to the availability of appro-  
12           priations, the Secretary of the Navy, acting through the ex-  
13           ecutive agent described in subsection (e), shall seek to enter  
14           into a contract for the construction of one sealift vessel for  
15           the National Defense Reserve Fleet.

16           (b) *DELIVERY DATE.*—The contract entered into under  
17           subsection (a) shall specify a delivery date for the sealift  
18           vessel of not later than September 30, 2026.

19           (c) *DESIGN AND CONSTRUCTION REQUIREMENTS.*—

20           (1) *USE OF EXISTING DESIGN.*—The design of  
21           the sealift vessel shall be based on a domestic or for-  
22           eign design that exists as of the date of the enactment  
23           of this Act.

24           (2) *COMMERCIAL STANDARDS AND PRACTICES.*—  
25           Subject to paragraph (1), the sealift vessel shall be

1       *constructed using commercial design standards and*  
2       *commercial construction practices that are consistent*  
3       *with the best interests of the Federal Government.*

4           (3) *DOMESTIC SHIPYARD.*—*The sealift vessel*  
5       *shall be constructed in a shipyard that is located in*  
6       *the United States.*

7           (d) *CERTIFICATE AND ENDORSEMENT.*—*The sealift*  
8       *vessel shall meet the requirements necessary to receive a cer-*  
9       *tificate of documentation and a coastwise endorsement*  
10       *under chapter 121 of title 46, United States Code, and the*  
11       *Secretary of the Navy shall ensure that the completed vessel*  
12       *receives such a certificate and endorsement.*

13          (e) *EXECUTIVE AGENT.*—

14           (1) *IN GENERAL.*—*The Secretary of the Navy*  
15       *shall seek to enter into a contract or other agreement*  
16       *with a private-sector entity under which the entity*  
17       *shall act as executive agent for the Secretary for pur-*  
18       *poses of the contract under subsection (a).*

19           (2) *RESPONSIBILITIES.*—*The executive agent de-*  
20       *scribed in paragraph (1) shall be responsible for—*

21           (A) *selecting a shipyard for the construction*  
22       *of the sealift vessel;*

23           (B) *managing and overseeing the construc-*  
24       *tion of the sealift vessel; and*

1                   (C) such other matters as the Secretary of  
2                   the Navy determines to be appropriate

3           (f) *USE OF INCREMENTAL FUNDING.*—With respect to  
4 the contract entered into under subsection (a), the Secretary  
5 of the Navy may use incremental funding to make pay-  
6 ments under the contract.

7           (g) *SEALIFT VESSEL DEFINED.*—In this section, the  
8 term “sealift vessel” means the sealift vessel constructed for  
9 the National Defense Reserve Fleet pursuant to the contract  
10 entered into under subsection (a).

## 11           ***Subtitle C—Air Force Programs***

### 12           ***SEC. 121. MODIFICATION OF REQUIREMENT TO PRESERVE*** 13   ***CERTAIN C-5 AIRCRAFT.***

14           Section 141(d) of the National Defense Authorization  
15 Act for Fiscal Year 2013 (Public Law 112–239; 126 Stat.  
16 1661) is amended—

17                   (1) in paragraph (1), by striking “until the date  
18 that is 30 days after the date on which the briefing  
19 under section 144(b) of the National Defense Author-  
20 ization Act for Fiscal Year 2018 is provided to the  
21 congressional defense committees”; and

22                   (2) in paragraph (2)(A), by striking “can be re-  
23 turned to service” and inserting “is inducted into or  
24 maintained in type 1000 recallable storage”.

1 **SEC. 122. MODIFICATION OF LIMITATION ON USE OF FUNDS**  
2 **FOR KC-46A AIRCRAFT.**

3 *Section 146(a)(1) of the John S. McCain National De-*  
4 *fense Authorization Act for Fiscal Year 2019 (Public Law*  
5 *115-232) is amended by striking “the military type certifi-*  
6 *cation” and inserting “either the military type certification*  
7 *or a military flight release”.*

8 **SEC. 123. F-15EX AIRCRAFT PROGRAM.**

9 *(a) DESIGNATION OF MAJOR SUBPROGRAM.—In ac-*  
10 *cordance with section 2430a of title 10, United States Code,*  
11 *the Secretary of Defense shall designate the F-15EX pro-*  
12 *gram as a major subprogram of the F-15 aircraft program.*

13 *(b) LIMITATION.—Except as provided in subsection*  
14 *(c), none of the funds authorized to be appropriated by this*  
15 *Act or otherwise made available for fiscal year 2020 for the*  
16 *Air Force may be obligated or expended to procure an F-*  
17 *15EX aircraft until a period of 30 days has elapsed fol-*  
18 *lowing the date on which the Secretary of the Air Force*  
19 *submits to the congressional defense committees the fol-*  
20 *lowing documentation relating to the F-15EX program:*

21 *(1) A program acquisition strategy.*

22 *(2) An acquisition program baseline.*

23 *(3) A test and evaluation master plan.*

24 *(4) A life-cycle sustainment plan.*

25 *(5) A post-production fielding strategy.*

26 *(c) EXCEPTION FOR PRODUCTION OF PROTOTYPES.—*

1           (1) *IN GENERAL.*—Notwithstanding subsection  
2           (b), the Secretary of the Air Force may use the funds  
3           described in paragraph (2) to develop, produce, and  
4           test not more than two prototypes of the F-15EX air-  
5           craft.

6           (2) *FUNDS DESCRIBED.*—The funds described in  
7           this paragraph are funds authorized to be appro-  
8           priated by this Act or otherwise made available for  
9           fiscal year 2020 for the Air Force for any of the fol-  
10          lowing:

11                   (A) *Research and development, non-*  
12                   *recurring engineering.*

13                   (B) *Aircraft procurement.*

14          (d) *F-15EX PROGRAM DEFINED.*—In this section, the  
15          term “F-15EX program” means the F-15EX aircraft pro-  
16          gram of the Air Force as described in the materials sub-  
17          mitted to Congress by the Secretary of Defense in support  
18          of the budget of the President for fiscal year 2020 (as sub-  
19          mitted to Congress under section 1105(a) of title 31, United  
20          States Code).

21          **SEC. 124. PROHIBITION ON AVAILABILITY OF FUNDS FOR**  
22                                   **REDUCTION IN KC-10 PRIMARY MISSION AIR-**  
23                                   **CRAFT INVENTORY.**

24          None of the funds authorized to be appropriated by this  
25          Act or otherwise made available for fiscal year 2020 for the

1 *Air Force may be obligated or expended to reduce the num-*  
2 *ber of KC-10 aircraft in the primary mission aircraft in-*  
3 *ventory of the Air Force.*

4 **SEC. 125. LIMITATION ON AVAILABILITY OF FUNDS FOR VC-**  
5 **25B AIRCRAFT.**

6 (a) *LIMITATION.*—None of the funds authorized to be  
7 appropriated by this Act or otherwise made available for  
8 fiscal year 2020 or any subsequent fiscal year for the Air  
9 Force may be obligated or expended to carry out over-and-  
10 above work on the VC-25B aircraft until the date on which  
11 the Secretary of the Air Force certifies to the congressional  
12 defense committees that—

13 (1) *with respect to work relating to aircraft*  
14 *paint scheme, interiors and livery, such work will not*  
15 *result in changes to the VC-25B aircraft that cause*  
16 *the aircraft to exceed—*

17 (A) *the specification requirements applica-*  
18 *ble to the VC-25A aircraft; or*

19 (B) *the quality or grade of the VC-25A air-*  
20 *craft;*

21 (2) *the livery for the VC-25B aircraft will com-*  
22 *ply with the criteria set forth in the report of the Boe-*  
23 *ing Company titled “Phase II Aircraft Livery and*  
24 *Paint Study Final Report” as submitted to the Fed-*  
25 *eral Government in April 2017;*

1           (3) *such work is not a result of late design*  
2 *changes made by the Federal Government to the inte-*  
3 *rior design of the VC-25B aircraft; and*

4           (4) *such work is not a result of rework that ex-*  
5 *ceeds the criteria set forth in the report of the Boeing*  
6 *Company titled “Presidential Quality Interior Ac-*  
7 *ceptance Standards Report” as submitted to the Fed-*  
8 *eral Government in September 2018.*

9           (b) *OVER-AND-ABOVE WORK DEFINED.—In this sec-*  
10 *tion, the term “over-and-above work” means work discov-*  
11 *ered during the course of performing overhaul, mainte-*  
12 *nance, or repair efforts that—*

13           (1) *is within the general scope of the contract*  
14 *pursuant to which such efforts are carried out;*

15           (2) *is not covered by a line item for the basic*  
16 *work under the contract; and*

17           (3) *is necessary in order to satisfactorily com-*  
18 *plete the contract.*

19 **SEC. 126. LIMITATION ON AVAILABILITY OF FUNDS FOR RE-**  
20 **TIREMENT OF RC-135 AIRCRAFT.**

21           (a) *LIMITATION.—Except as provided in subsection*  
22 *(b), none of the funds authorized to be appropriated by this*  
23 *Act or otherwise made available for fiscal year 2020 for the*  
24 *Air Force may be obligated or expended to retire, or prepare*  
25 *to retire, any RC-135 aircraft until a period of 60 days*

1 *has elapsed following the date on which the Secretary of*  
2 *Defense certifies to the congressional defense committees*  
3 *that—*

4           (1) *technologies other than the RC–135 aircraft*  
5 *provide capacity and capabilities equivalent to the*  
6 *capacity and capabilities of the RC–135 aircraft; and*

7           (2) *the capacity and capabilities of such other*  
8 *technologies meet the requirements of combatant com-*  
9 *manders with respect to indications and warning, in-*  
10 *telligence preparation of the operational environment,*  
11 *and direct support for kinetic and nonkinetic oper-*  
12 *ations.*

13           (b) *EXCEPTION.—The limitation in subsection (a)*  
14 *shall not apply to individual RC–135 aircraft that the Sec-*  
15 *retary of the Air Force determines, on a case-by-case basis,*  
16 *to be no longer mission capable because of mishaps, other*  
17 *damage, or being uneconomical to repair.*

18 **SEC. 127. REPORT ON AIRCRAFT FLEET OF THE CIVIL AIR**  
19 **PATROL.**

20           (a) *REPORT.—Not later than 90 days after the date*  
21 *of the enactment of this Act, the Secretary of the Air Force*  
22 *shall submit to the congressional defense committees a re-*  
23 *port on the aircraft fleet of the Civil Air Patrol.*

24           (b) *ELEMENTS.—The report required by subsection (a)*  
25 *shall include an assessment of each of the following:*

1           (1) *Whether the number of aircraft, types of air-*  
2 *craft, and operating locations that comprise the Civil*  
3 *Air Patrol fleet are suitable for the missions and re-*  
4 *sponsibilities assigned to the Civil Air Patrol, includ-*  
5 *ing—*

6                   (A) *flight proficiency and training;*

7                   (B) *operational mission training; and*

8                   (C) *support for cadet orientation and cadet*  
9 *flight training programs in the Civil Air Patrol*  
10 *wing of each State.*

11           (2) *The ideal overall size of the Civil Air Patrol*  
12 *aircraft fleet, including a description of the factors*  
13 *used to determine that ideal size.*

14           (3) *The process used by the Civil Air Patrol and*  
15 *the Air Force to determine the number and location*  
16 *of aircraft operating locations and whether State*  
17 *Civil Air Patrol wing commanders are appropriately*  
18 *involved in that process.*

19           (4) *The process used by the Civil Air Patrol, the*  
20 *Air Force, and other relevant entities to determine the*  
21 *type and number of aircraft that are needed to sup-*  
22 *port the emergency, operational, and training mis-*  
23 *sions of the Civil Air Patrol.*

1       ***Subtitle D—Defense-wide, Joint,***  
2       ***and Multiservice Matters***

3       ***SEC. 131. ECONOMIC ORDER QUANTITY CONTRACTING AND***  
4                   ***BUY-TO-BUDGET ACQUISITION FOR F-35 AIR-***  
5                   ***CRAFT PROGRAM.***

6       (a) *ECONOMIC ORDER QUANTITY CONTRACT AUTHOR-*  
7       *ITY.—*

8               (1) *IN GENERAL.—Subject to paragraphs (2)*  
9       *through (5), from amounts made available for obliga-*  
10       *tion under the F-35 aircraft program for fiscal year*  
11       *2020, the Secretary of Defense may enter into one or*  
12       *more contracts, beginning with the fiscal year 2020*  
13       *program year, for the procurement of economic order*  
14       *quantities of material and equipment that has com-*  
15       *pleted formal hardware qualification testing for the*  
16       *F-35 aircraft program for use in procurement con-*  
17       *tracts to be awarded for such program during fiscal*  
18       *years 2021, 2022, and 2023.*

19              (2) *LIMITATION.—The total amount obligated*  
20       *under all contracts entered into under paragraph (1)*  
21       *shall not exceed \$574,000,000.*

22              (3) *PRELIMINARY FINDINGS.—Before entering*  
23       *into a contract under paragraph (1), the Secretary of*  
24       *Defense shall make each of the following findings with*  
25       *respect to such contract:*

1           (A) *The use of such a contract will result in*  
2 *significant savings of the total anticipated costs*  
3 *of carrying out the program through annual con-*  
4 *tracts.*

5           (B) *The minimum need for the property to*  
6 *be procured is expected to remain substantially*  
7 *unchanged during the contemplated contract pe-*  
8 *riod in terms of production rate, procurement*  
9 *rate, and total quantities.*

10          (C) *There is a reasonable expectation that,*  
11 *throughout the contemplated contract period, the*  
12 *Secretary will request funding for the contract at*  
13 *the level required to avoid contract cancellation.*

14          (D) *That there is a stable, certified, and*  
15 *qualified design for the property to be procured*  
16 *and that the technical risks and redesign risks*  
17 *associated with such property are low.*

18          (E) *The estimates of both the cost of the con-*  
19 *tract and the anticipated cost avoidance through*  
20 *the use of an economic order quantity contract*  
21 *are realistic.*

22          (F) *Entering into the contract will promote*  
23 *the national security interests of the United*  
24 *States.*

1           (4) *CERTIFICATION REQUIREMENT.*—*Except as*  
2           *provided in paragraph (5), the Secretary of Defense*  
3           *may not enter into a contract under paragraph (1)*  
4           *until a period of 30 days has elapsed following the*  
5           *date on which the Secretary certifies to the congres-*  
6           *sional defense committees, in writing, that each of the*  
7           *following conditions is satisfied:*

8                   (A) *A sufficient number of end items of the*  
9                   *system being acquired under such contract have*  
10                  *been delivered at or within the most recently*  
11                  *available estimates of the program acquisition*  
12                  *unit cost or procurement unit cost for such sys-*  
13                  *tem to determine that the estimates of the unit*  
14                  *costs are realistic.*

15                  (B) *During the fiscal year in which such*  
16                  *contract is to be awarded, sufficient funds will be*  
17                  *available to perform the contract in such fiscal*  
18                  *year, and the future-years defense program sub-*  
19                  *mitted to Congress under section 221 of title 10,*  
20                  *United States Code, for that fiscal year will in-*  
21                  *clude the funding required to execute the pro-*  
22                  *gram without cancellation.*

23                  (C) *The contract is a fixed-price type con-*  
24                  *tract.*

1           (D) *The proposed contract provides for pro-*  
2 *duction at not less than minimum economic*  
3 *rates given the existing tooling and facilities.*

4           (E) *The Secretary has determined that each*  
5 *of the conditions described in subparagraphs (A)*  
6 *through (F) of paragraph (3) will be met by such*  
7 *contract and has provided the basis for such de-*  
8 *termination to the congressional defense commit-*  
9 *tees.*

10           (F) *The determination under subparagraph*  
11 *(E) was made after the completion of a cost*  
12 *analysis performed by the Director of Cost As-*  
13 *essment and Program Evaluation for the pur-*  
14 *pose of section 2334 of title 10, United States*  
15 *Code, and the analysis supports that determina-*  
16 *tion.*

17           (5) *EXCEPTION.—Notwithstanding paragraph*  
18 *(4), the Secretary of Defense may enter into a con-*  
19 *tract under paragraph (1) on or after March 1, 2020,*  
20 *if—*

21           (A) *the Director of Cost Assessment and*  
22 *Program Evaluation has not completed a cost*  
23 *analysis of the preliminary findings made by the*  
24 *Secretary under paragraph (3) with respect to*  
25 *the contract;*

1           (B) the Secretary certifies to the congres-  
2           sional defense committees, in writing, that each  
3           of the conditions described in subparagraphs (A)  
4           through (E) of paragraph (4) is satisfied; and

5           (C) a period of 30 days has elapsed fol-  
6           lowing the date on which the Secretary submits  
7           the certification under subparagraph (B).

8           (b) *BUY-TO-BUDGET ACQUISITION.*—Subject to section  
9           2308 of title 10, United States Code, using funds authorized  
10          to be appropriated by this Act for the procurement of F-  
11          35 aircraft, the Secretary of Defense may procure a quan-  
12          tity of F-35 aircraft in excess of the quantity authorized  
13          by this Act if such additional procurement does not require  
14          additional funds to be authorized to be appropriated be-  
15          cause of production efficiencies or other cost reductions.

16          **SEC. 132. PROGRAM REQUIREMENTS FOR THE F-35 AIR-**  
17          **CRAFT PROGRAM.**

18          (a) *DESIGNATION OF MAJOR SUBPROGRAM.*—In ac-  
19          cordance with section 2430a of title 10, United States Code,  
20          the Secretary of Defense shall designate F-35 Block 4 as  
21          a major subprogram of the F-35 aircraft program.

22          (b) *COST ESTIMATES.*—

23                  (1) *JOINT COST ESTIMATE.*—The Secretary of the  
24          Air Force and the Secretary of the Navy shall jointly

1        *develop a joint service cost estimate for the life-cycle*  
2        *costs of the F-35 aircraft program.*

3            (2) *INDEPENDENT COST ESTIMATE.—The Direc-*  
4        *tor of Cost Assessment and Program Evaluation shall*  
5        *develop an independent cost estimate for the life-cycle*  
6        *costs of the F-35 aircraft program.*

7            (3) *SUBMITTAL TO CONGRESS.—The cost esti-*  
8        *mates required under paragraphs (1) and (2) shall be*  
9        *submitted to the congressional defense committees not*  
10       *later than 180 days after the date of the enactment*  
11       *of this Act.*

12        (c) *REVISION OF PROGRAM ELEMENTS.—*

13            (1) *REVISION REQUIRED.—The Secretary of De-*  
14        *fense shall revise the program elements applicable to*  
15        *the F-35 aircraft program as follows:*

16            (A) *RESEARCH AND DEVELOPMENT.—The*  
17        *program element for research and development*  
18        *costs (as that element was specified in the mate-*  
19        *rials submitted to Congress by the Secretary of*  
20        *Defense in support of the budget of the President*  
21        *for fiscal year 2020 (as submitted to Congress*  
22        *under section 1105(a) of title 31, United States*  
23        *Code)) shall be separated into the following indi-*  
24        *vidual program elements:*

1                   (i) *System development and dem-*  
2                   *onstration closeout.*

3                   (ii) *F-35 Block 4.*

4                   (iii) *Autonomic logistics information*  
5                   *system development and upgrades.*

6                   (iv) *Dual-capable aircraft.*

7                   (v) *Test infrastructure.*

8                   (vi) *Additional program budget ele-*  
9                   *ments, as required, for each modernization*  
10                   *or upgrade effort initiated after F-35 Block*  
11                   *4.*

12                   (B) *PROCUREMENT.*—*The program element*  
13                   *for procurement costs (as that element was speci-*  
14                   *fied in the materials submitted to Congress by*  
15                   *the Secretary of Defense in support of the budget*  
16                   *of the President for fiscal year 2020 (as sub-*  
17                   *mitted to Congress under section 1105(a) of title*  
18                   *31, United States Code)) shall be separated into*  
19                   *the following individual program elements:*

20                   (i) *Recurring fly-away and ancillary*  
21                   *equipment.*

22                   (ii) *Non-recurring fly-away and ancil-*  
23                   *lary equipment.*

24                   (iii) *F-35 Block 4.*

1                   (iv) *Autonomic logistics information*  
2                   *system.*

3                   (v) *Dual-capable aircraft.*

4                   (vi) *Engineering support.*

5                   (vii) *Aircraft retrofit and modifica-*  
6                   *tion.*

7                   (viii) *Depot activation.*

8                   (ix) *Initial spares.*

9                   (x) *Production support.*

10               (2) *INCLUSION IN BUDGET MATERIALS.—The*  
11               *Secretary of Defense shall ensure that each revised*  
12               *program element described in paragraph (1) is in-*  
13               *cluded, with a specific dollar amount, in the mate-*  
14               *rials relating to the F–35 aircraft program submitted*  
15               *to Congress by the Secretary of Defense in support of*  
16               *the budget of the President (as submitted to Congress*  
17               *under section 1105(a) of title 31, United States Code)*  
18               *for fiscal year 2021 and each fiscal year thereafter*  
19               *until the date on which the F–35 aircraft program*  
20               *terminates.*

21               (d) *COMPTROLLER GENERAL REPORTS.—*

22               (1) *ANNUAL REPORT REQUIRED.—Not later than*  
23               *30 days after the date on which the budget of the*  
24               *President is submitted to Congress under section*  
25               *1105(a) of title 31, United States Code, for each of*

1 *fiscal years 2021 through 2025, the Comptroller Gen-*  
2 *eral of the United States shall submit to the congres-*  
3 *sional defense committees a report on the F-35 air-*  
4 *craft program.*

5 (2) *ELEMENTS.—Each report under paragraph*  
6 *(1) shall include, with respect to the F-35 aircraft*  
7 *program, the following:*

8 (A) *An assessment of the progress of manu-*  
9 *facturing processes improvement under the pro-*  
10 *gram.*

11 (B) *The business case analysis of the De-*  
12 *partment of Defense for F-35 Block 4 follow-on*  
13 *modernization efforts.*

14 (C) *The progress and results of F-35 Block*  
15 *4 and other follow-on modernization development*  
16 *and testing efforts.*

17 (D) *The Department's schedule for deliv-*  
18 *ering software upgrades in six-month, scheduled*  
19 *increments.*

20 (E) *The progress and results of any other*  
21 *significant hardware development and fielding*  
22 *efforts necessary for F-35 Block 4.*

23 (F) *Any other issues the Comptroller Gen-*  
24 *eral determines to be appropriate.*

1           (e) *F-35 BLOCK 4 DEFINED.*—*In this section, the term*  
2 *“F-35 Block 4” means Block 4 capability upgrades for the*  
3 *F-35 aircraft program as described in the Selected Acquisi-*  
4 *tion Report for the program submitted to Congress in*  
5 *March 2019, pursuant to section 2432 of title 10, United*  
6 *States Code.*

7 **SEC. 133. REPORTS ON F-35 AIRCRAFT PROGRAM.**

8           (a) *REPORT ON F-35 RELIABILITY AND MAINTAIN-*  
9 *ABILITY METRICS.*—*The Secretary of Defense shall submit*  
10 *to the congressional defense committees a report on the reli-*  
11 *ability and maintainability metrics for the F-35 aircraft.*  
12 *The report shall include the following:*

13                   (1) *The results of a review and assessment, con-*  
14 *ducted by the program office for the F-35 aircraft*  
15 *program, of the reliability and maintainability*  
16 *metrics for the aircraft as set forth in the most recent*  
17 *operational requirements document for the program.*

18                   (2) *A determination of whether the reliability*  
19 *and maintainability metrics for the aircraft, as set*  
20 *forth in the most recent operational requirements doc-*  
21 *ument for the program, are feasible and attainable,*  
22 *and what changes, if any, will be made to update the*  
23 *metrics.*

1           (3) *A certification that the program office for the*  
2 *F-35 aircraft program has revised the reliability and*  
3 *maintainability improvement plan for the aircraft—*

4           (A) *to identify specific and measurable reli-*  
5 *ability and maintainability objectives in the im-*  
6 *provement plan guidance; and*

7           (B) *to identify and document which projects*  
8 *included in the improvement plan will achieve*  
9 *the objectives identified under subparagraph (A).*

10 (b) *REPORT ON F-35 BLOCK 4.—*

11           (1) *IN GENERAL.—The Secretary of Defense shall*  
12 *submit to the congressional defense committees a re-*  
13 *port on F-35 Block 4. The report shall include the*  
14 *following:*

15           (A) *The results of an independent cost esti-*  
16 *mate for F-35 Block 4 conducted by the Director*  
17 *of Cost Assessment and Program Evaluation.*

18           (B) *A test and evaluation master plan, ap-*  
19 *proved by the Director of Operational Test and*  
20 *Evaluation, that addresses testing resources, test-*  
21 *ing aircraft shortfalls, and testing funding.*

22           (C) *A technology readiness assessment of all*  
23 *technologies and capabilities planned for F-35*  
24 *Block 4 conducted by the Under Secretary of De-*  
25 *fense for Research and Engineering.*

1                   (D) *A review of the feasibility of the contin-*  
2                   *uous capability development and delivery strat-*  
3                   *egy for fielding F-35 Block 4 technologies con-*  
4                   *ducted by the Under Secretary of Defense for Re-*  
5                   *search and Engineering.*

6                   (2) *F-35 BLOCK 4 DEFINED.*—*In this subsection,*  
7                   *the term “F-35 Block 4” has the meaning given that*  
8                   *term in section 132(e).*

9                   (c) *REPORT ON F-35 AUTONOMIC LOGISTICS INFOR-*  
10                  *MATION SYSTEM.*—*The Secretary of Defense shall submit to*  
11                  *the congressional defense committees a report on the auto-*  
12                  *nommic logistics information system of the F-35 aircraft.*  
13                  *The report shall include a description of each of the fol-*  
14                  *lowing:*

15                   (1) *All shortfalls, capability gaps, and defi-*  
16                   *ciencies in the system that have been identified as of*  
17                   *the date of the enactment of this Act.*

18                   (2) *The strategy and performance requirements*  
19                   *that will be implemented to improve the system.*

20                   (3) *The strategy, implementation plan, schedule,*  
21                   *and estimated costs of developing and fielding—*

22                           (A) *the next generation of the system; or*

23                           (B) *future increments of the system.*

24                   (d) *DEADLINE FOR SUBMITTAL.*—*The reports required*  
25                   *under subsections (a) through (c) shall be submitted to the*

1 congressional defense committees not later than 180 days  
2 after the date of the enactment of this Act.

3 **TITLE II—RESEARCH, DEVELOP-**  
4 **MENT, TEST, AND EVALUA-**  
5 **TION**

6 **Subtitle A—Authorization of**  
7 **Appropriations**

8 **SEC. 201. AUTHORIZATION OF APPROPRIATIONS.**

9 *Funds are hereby authorized to be appropriated for fis-*  
10 *cal year 2020 for the use of the Department of Defense for*  
11 *research, development, test, and evaluation, as specified in*  
12 *the funding table in section 4201.*

13 **Subtitle B—Program Requirements,**  
14 **Restrictions, and Limitations**

15 **SEC. 211. PROGRAM ON ENHANCEMENT OF PREPARATION**  
16 **OF DEPENDENTS OF MEMBERS OF ARMED**  
17 **FORCES FOR CAREERS IN SCIENCE, TECH-**  
18 **NOLOGY, ENGINEERING, AND MATHEMATICS.**

19 *(a) PROGRAM REQUIRED.—Chapter 111 of title 10,*  
20 *United States Code, is amended by inserting after section*  
21 *2192a the following new section:*

1 **“§2192b. Program on enhancement of preparation of**  
2 **dependents of members of armed forces**  
3 **for careers in science, technology, engi-**  
4 **neering, and mathematics**

5 “(a) *PROGRAM REQUIRED.*—*The Secretary of Defense*  
6 *shall carry out a program to—*

7 “(1) *enhance the preparation of students at cov-*  
8 *ered schools for careers in science, technology, engi-*  
9 *neering, and mathematics; and*

10 “(2) *provide assistance to teachers at covered*  
11 *schools to enhance preparation described in para-*  
12 *graph (1).*

13 “(b) *COORDINATION.*—*In carrying out the program,*  
14 *the Secretary shall coordinate with the following:*

15 “(1) *The Secretaries of the military departments.*

16 “(2) *The Secretary of Education.*

17 “(3) *The National Science Foundation.*

18 “(4) *Other organizations as the Secretary of De-*  
19 *fense considers appropriate.*

20 “(c) *ACTIVITIES.*—*Activities under the program may*  
21 *include the following:*

22 “(1) *Establishment of targeted internships and*  
23 *cooperative research opportunities at defense labora-*  
24 *tories and other technical centers for students and*  
25 *teachers at covered schools.*

1           “(2) *Establishment of scholarships and fellow-*  
2           *ships for students at covered schools.*

3           “(3) *Efforts and activities that improve the qual-*  
4           *ity of science, technology, engineering, and mathe-*  
5           *matics educational and training opportunities for*  
6           *students and teachers at covered schools, including*  
7           *with respect to improving the development of cur-*  
8           *ricula at covered schools.*

9           “(4) *Development of travel opportunities, dem-*  
10          *onstrations, mentoring programs, and informal*  
11          *science education for students and teachers at covered*  
12          *schools.*

13          “(d) *METRICS.—The Secretary shall establish outcome-*  
14          *based metrics and internal and external assessments to*  
15          *evaluate the merits and benefits of activities conducted*  
16          *under the program with respect to the needs of the Depart-*  
17          *ment of Defense.*

18          “(e) *COVERED SCHOOLS DEFINED.—In this section,*  
19          *the term ‘covered schools’ means elementary or secondary*  
20          *schools at which the Secretary determines a significant*  
21          *number of dependents of members of the armed forces are*  
22          *enrolled.”.*

23          “(b) *CLERICAL AMENDMENT.—The table of sections at*  
24          *the beginning of such chapter is amended by inserting after*  
25          *the item relating to section 2192a the following new item:*

“2192b. Program on enhancement of preparation of dependents of members of armed forces for careers in science, technology, engineering, and mathematics.”.

1           (c) *CONFORMING REPEAL.*—Section 233 of the Carl  
2 *Levin and Howard P. “Buck” McKeon National Defense*  
3 *Authorization Act for Fiscal Year 2015 (Public Law 113–*  
4 *291; 10 U.S.C. 2193a note) is repealed.*

5 **SEC. 212. TEMPORARY INCLUSION OF JOINT ARTIFICIAL IN-**  
6 **TELLIGENCE CENTER OF THE DEPARTMENT**  
7 **OF DEFENSE IN PERSONNEL MANAGEMENT**  
8 **AUTHORITY TO ATTRACT EXPERTS IN**  
9 **SCIENCE AND ENGINEERING.**

10           (a) *IN GENERAL.*—Subsection (a) of section 1599h of  
11 *title 10, United States Code, is amended by adding at the*  
12 *end the following new paragraph:*

13                   “(6) *JOINT ARTIFICIAL INTELLIGENCE CEN-*  
14 *TER.*—*The Director of the Joint Artificial Intelligence*  
15 *Center may carry out a program of personnel man-*  
16 *agement authority provided in subsection (b) in order*  
17 *to facilitate recruitment of eminent experts in science*  
18 *or engineering for the Center. The authority to carry*  
19 *out the program under this paragraph shall terminate*  
20 *on December 31, 2024.”.*

21           (b) *SCOPE OF APPOINTMENT AUTHORITY.*—Subsection  
22 (b)(1) of such section is amended—

23                   (1) *in subparagraph (D), by striking “and” at*  
24 *the end;*

1           (2) in subparagraph (E), by adding “and” at  
2     the end; and

3           (3) by adding at the end the following new sub-  
4     paragraph:

5                     “(F) in the case of the Joint Artificial Intel-  
6                     ligence Center, appoint scientists and engineers  
7                     to a total of not more than 5 scientific and engi-  
8                     neering positions in the Center;”.

9           (c) *EXTENSION OF TERMS OF APPOINTMENT.*—Sub-  
10    section (c)(2) of such section is amended by striking “or  
11    the Defense Innovation Unit Experimental” and inserting  
12    “the Defense Innovation Unit Experimental, or the Joint  
13    Artificial Intelligence Center”.

14    **SEC. 213. JOINT HYPERSONICS TRANSITION OFFICE.**

15           Section 218 of the John Warner National Defense Au-  
16    thorization Act for Fiscal Year 2007 (Public Law 109–364;  
17    10 U.S.C. 2358 note) is amended—

18                     (1) in subsection (a), by striking “the program  
19                     required under subsection (b), and shall” and insert-  
20                     ing “the program and activities described in sub-  
21                     sections (d) through (g), and shall”;

22                     (2) by redesignating subsections (b) through (e)  
23                     as subsections (d) through (g), respectively;

24                     (3) by inserting after subsection (a) the following  
25                     new subsections:

1           “(b) *DIRECTOR.*—*There is a Director of the Office (re-*  
2 *ferred to in this section as the ‘Director’). The Director shall*  
3 *be appointed by the Secretary of Defense and shall serve*  
4 *as the senior official in the Department of Defense with*  
5 *principal responsibility for carrying out the program and*  
6 *activities described in subsections (d) through (g). The Di-*  
7 *rector shall report to the Assistant Director for Hypersonics*  
8 *within the Office of the Under Secretary of Defense for Re-*  
9 *search and Engineering.*

10           “(c) *UNIVERSITY CONSORTIUM.*—

11                   “(1) *DESIGNATION.*—*The Director shall des-*  
12 *ignate a consortium of institutions of higher edu-*  
13 *cation (as that term is defined in section 101 of the*  
14 *Higher Education Act of 1965 (20 U.S.C. 1001)) to*  
15 *lead foundational hypersonic research in research*  
16 *areas that the Director determines to be appropriate*  
17 *for the Department of Defense.*

18                   “(2) *AVAILABILITY OF INFORMATION.*—*The Di-*  
19 *rector shall ensure that the research results and re-*  
20 *ports of the consortium are made available across the*  
21 *Federal Government, the private sector, and aca-*  
22 *demia, consistent with appropriate security classifica-*  
23 *tion guidance.”;*

24                   “(4) *in subsection (d), by striking ‘The Office’*  
25 *and inserting ‘The Director’;*

1           (5) *in subsection (e), as so redesignated—*

2                   (A) *in the matter preceding paragraph (1),*  
3 *by striking “program required by subsection (b),*  
4 *the Office” and inserting “program required by*  
5 *subsection (d), the Director”;*

6                   (B) *in paragraph (3)(A), by striking “pri-*  
7 *vate sector” and inserting “private-sector aca-*  
8 *demic”;* and

9                   (C) *in paragraph (5), by striking “certified*  
10 *under subsection (e) as being consistent with the*  
11 *roadmap under subsection (d)” and inserting*  
12 *“certified under subsection (g) as being con-*  
13 *sistent with the roadmap under subsection (f)”;*

14           (6) *in subsection (f), as so redesignated—*

15                   (A) *in paragraph (3)—*

16                           (i) *in subparagraph (C)—*

17                                   (I) *in clause (i), by striking*  
18 *“and” at the end;*

19                                   (II) *in clause (ii), by striking the*  
20 *period at the end and inserting “;*  
21 *and”;* and

22                                   (III) *by adding at the end the fol-*  
23 *lowing new clause:*

24                                   “*(iii) the activities and resources of the*  
25 *consortium designated by the Director*

1                   *under subsection (c) to be leveraged by the*  
2                   *Department to meet such goals.”; and*

3                   *(ii) in subparagraph (D), by striking*  
4                   *“facilities” both places it appears and in-*  
5                   *serting “facilities and infrastructure”; and*  
6                   *(B) by adding at the end the following new*

7 *paragraph:*

8                   “(4) *SUBMITTAL TO CONGRESS.—*

9                   *“(A) INITIAL SUBMISSION.—Not later than*  
10                  *180 days after the date of the enactment of this*  
11                  *paragraph, the Secretary of Defense shall submit*  
12                  *to the congressional defense committees the road-*  
13                  *map developed under paragraph (1).*

14                  *“(B) SUBSEQUENT SUBMISSIONS.—The Sec-*  
15                  *retary of Defense shall submit to the congres-*  
16                  *sional defense committees each roadmap revised*  
17                  *under paragraph (1) together with the budget*  
18                  *submitted to Congress under section 1105 of title*  
19                  *31, United States Code, for the fiscal year con-*  
20                  *cerned.”;*

21                  *(7) in subsection (g), as so redesignated—*

22                    *(A) by striking “subsection (d)” each place*  
23                    *it appears and inserting “subsection (f)”;*

24                    *(B) in paragraph (1)—*

1           (i) in the matter preceding subpara-  
2 graph (A), by striking “The Office” and in-  
3 sert “The Director”;

4           (ii) in subparagraph (A) by striking  
5 “research, development, test, and evaluation  
6 and demonstration programs within the De-  
7 partment of Defense” and inserting “de-  
8 fense-wide research, development, test, and  
9 evaluation and demonstration programs”;  
10 and

11           (iii) in subparagraph (B), by striking  
12 “the hypersonics” and inserting “all  
13 hypersonics”;

14           (C) in paragraph (2), by striking “The Of-  
15 fice” and inserting “The Director”; and

16           (D) in paragraph (3), by striking “2016”  
17 and inserting “2026”; and

18           (8) by adding at the end the following new sub-  
19 section:

20           “(h) FUNDING.—The Secretary may make available  
21 such funds to the Office for basic research, applied research,  
22 advanced technology development, prototyping, studies and  
23 analyses, and organizational support as the Secretary con-  
24 siders appropriate to support the efficient and effective de-  
25 velopment of hypersonics technologies and transition of

1 *those systems and technologies into acquisition programs or*  
2 *operational use.”.*

3 **SEC. 214. MODIFICATION OF PROOF OF CONCEPT COMMERCIALIZATION PROGRAM.**  
4

5 (a) *EXTENSION OF PROGRAM.*—Section 1603(g) of the  
6 *National Defense Authorization Act for Fiscal Year 2014*  
7 *(Public Law 113–66; 10 U.S.C. 2359 note)* is amended by  
8 *striking “2019” and inserting “2024”.*

9 (b) *ADDITIONAL IMPROVEMENTS.*—Section 1603 of  
10 *such Act, as amended by subsection (a), is further amend-*  
11 *ed—*

12 (1) *in the section heading, by inserting “OF*  
13 ***DUAL-USE TECHNOLOGY****” after “COMMERCIALIZATION”;*  
14

15 (2) *in subsection (a)—*

16 (A) *by inserting “of Dual-Use Technology”*  
17 *before “Program”;* and

18 (B) *by inserting “with a focus on priority*  
19 *defense technology areas that attract public and*  
20 *private sector funding, as well as private sector*  
21 *investment capital, including from venture cap-*  
22 *ital firms in the United States,” before “in ac-*  
23 *cordance”;*

1           (3) *in subsection (c)(4)(A)(iv), by inserting “,*  
2 *which may include access to venture capital” after*  
3 *“award”;*

4           (4) *by striking subsection (d);*

5           (5) *by redesignating subsection (e) as subsection*  
6 *(d);*

7           (6) *by striking subsection (f); and*

8           (7) *by adding at the end the following new sub-*  
9 *section (e):*

10          “(e) *AUTHORITIES.—In carrying out this section, the*  
11 *Secretary may use the following authorities:*

12           “(1) *Section 1599g of title 10 of the United*  
13 *States Code, relating to public-private talent ex-*  
14 *changes.*

15           “(2) *Section 2368 of such title, relating to Cen-*  
16 *ters for Science, Technology, and Engineering Part-*  
17 *nerships.*

18           “(3) *Section 2374a of such title, relating to*  
19 *prizes for advanced technology achievements.*

20           “(4) *Section 2474 of such title, relating to Cen-*  
21 *ters of Industrial and Technical Excellence.*

22           “(5) *Section 2521 of such title, relating to the*  
23 *Manufacturing Technology Program.*

1           “(6) Section 225 of the National Defense Author-  
2           ization Act for Fiscal Year 2018 (Public Law 115–  
3           91; 10 U.S.C. 2359 note).

4           “(7) Section 1711 of such Act (Public Law 115–  
5           91; 10 U.S.C. 2505 note), relating to a pilot program  
6           on strengthening manufacturing in the defense indus-  
7           trial base.

8           “(8) Section 12 of the Stevenson-Wydler Tech-  
9           nology Innovation Act of 1980 (15 U.S.C. 3710a) and  
10          section 6305 of title 31, United States Code, relating  
11          to cooperative research and development agreements.”.

12   **SEC. 215. CONTRACT FOR NATIONAL SECURITY RESEARCH**  
13                           **STUDIES.**

14          (a) *CONTRACT AUTHORITY.*—The Secretary of Defense,  
15          acting through the Under Secretary of Defense for Acquisi-  
16          tion and Sustainment, shall seek to enter into a contract  
17          with a federally funded research and development center  
18          under which the private scientific advisory group known  
19          as “JASON” will provide national security research studies  
20          to the Department of Defense.

21          (b) *TERMS OF CONTRACT.*—The contract entered into  
22          under subsection (a) shall be an indefinite delivery-indefi-  
23          nite quantity contract with terms substantially similar to  
24          the terms of the contract in effect before March 28, 2019,  
25          under which JASON provided national security research

1 *studies to the Department of Defense (solicitation number*  
2 *HQ0034-19-R-0011 for JASON National Security Research*  
3 *Studies).*

4 *(c) TERMINATION.—The Secretary of Defense may not*  
5 *terminate the contract under subsection (a) until a period*  
6 *of 90 days has elapsed following the date on which the Sec-*  
7 *retary notifies the congressional defense committees of the*  
8 *intent of the Secretary to terminate the contract.*

9 **SEC. 216. JASON SCIENTIFIC ADVISORY GROUP.**

10 *Pursuant to section 173 of title 10, United States Code,*  
11 *the Secretary of Defense shall seek to engage the members*  
12 *of the private scientific advisory group known as “JASON”*  
13 *as advisory personnel to provide advice, on an ongoing*  
14 *basis, on matters involving science, technology, and na-*  
15 *tional security, including methods to defeat existential and*  
16 *technologically-amplified threats to national security.*

17 **SEC. 217. DIRECT AIR CAPTURE AND BLUE CARBON RE-**  
18 **MOVAL TECHNOLOGY PROGRAM.**

19 *(a) PROGRAM AUTHORIZED.—*

20 *(1) IN GENERAL.—The Secretary of Defense, in*  
21 *coordination with the Secretary of Homeland Secu-*  
22 *rity, the Secretary of Energy, and the heads of such*  
23 *other Federal agencies as the Secretary of Defense*  
24 *considers appropriate, may carry out a program on*  
25 *research, development, testing, evaluation, study, and*

1 *demonstration of technologies related to blue carbon*  
2 *capture and direct air capture.*

3 (2) *PROGRAM GOALS.—The goals of the program*  
4 *established under paragraph (1) are as follows:*

5 (A) *To develop technologies that capture*  
6 *carbon dioxide from seawater and the air to turn*  
7 *such carbon dioxide into clean fuels to enhance*  
8 *fuel and energy security.*

9 (B) *To develop and demonstrate technologies*  
10 *that capture carbon dioxide from seawater and*  
11 *the air to reuse such carbon dioxide to create*  
12 *products for military uses.*

13 (C) *To develop direct air capture tech-*  
14 *nologies for use—*

15 (i) *at military installations or facili-*  
16 *ties of the Department of Defense; or*

17 (ii) *in modes of transportation by the*  
18 *Navy or the Coast Guard.*

19 (3) *PHASES.—The program established under*  
20 *paragraph (1) shall be carried out in two phases as*  
21 *follows:*

22 (A) *The first phase may consist of research*  
23 *and development and shall be carried out as de-*  
24 *scribed in subsection (b).*

1           (B) *The second phase shall consist of testing*  
2           *and evaluation and shall be carried out as de-*  
3           *scribed in subsection (c), if the Secretary deter-*  
4           *mines that the results of the research and devel-*  
5           *opment phase justify implementing the testing*  
6           *and evaluation phase.*

7           (4) *DESIGNATION.*—*The program established*  
8           *under paragraph (1) shall be known as the “Direct*  
9           *Air Capture and Blue Carbon Removal Technology*  
10           *Program” (in this section referred to as the “Pro-*  
11           *gram”).*

12           (b) *RESEARCH AND DEVELOPMENT PHASE.*—

13           (1) *IN GENERAL.*—*During the research and de-*  
14           *velopment phase of the Program, the Secretary of De-*  
15           *fense may conduct research and development in pur-*  
16           *suit of the goals set forth in subsection (a)(2).*

17           (2) *DIRECT AIR CAPTURE.*—*The research and de-*  
18           *velopment phase of the Program may include, with*  
19           *respect to direct air capture, a front end engineering*  
20           *and design study that includes an evaluation of direct*  
21           *air capture designs to produce fuel for use—*

22                   (A) *at military installations or facilities of*  
23                   *the Department of Defense; or*

24                   (B) *in modes of transportation by the Navy*  
25                   *or the Coast Guard.*

1           (3) *DURATION.*—*The Secretary may carry out*  
2 *the research and development phase of the Program*  
3 *commencing not later than 90 days after the date of*  
4 *the enactment of this Act.*

5           (4) *GRANTS AUTHORIZED.*—*The Secretary may*  
6 *carry out the research and development phase of the*  
7 *Program through the award of grants to private per-*  
8 *sons and eligible laboratories.*

9           (5) *REPORT REQUIRED.*—*Not later than 180*  
10 *days after the date of the completion of the research*  
11 *and development phase of the Program, the Secretary*  
12 *shall submit to Congress a report on the research and*  
13 *development carried out under the Program.*

14       (c) *TESTING AND EVALUATION PHASE.*—

15           (1) *IN GENERAL.*—*During the testing and eval-*  
16 *uation phase of the Program, the Secretary may, in*  
17 *pursuit of the goals set forth in subsection (a)(2), con-*  
18 *duct tests and evaluations of the technologies re-*  
19 *searched and developed during the research and devel-*  
20 *opment phase of the Program.*

21           (2) *DIRECT AIR CAPTURE.*—*The testing and*  
22 *evaluation phase of the Program may include dem-*  
23 *onstration projects for direct air capture to produce*  
24 *fuel for use—*

1           (A) at military installations or facilities of  
2           the Department of Defense; or

3           (B) in modes of transportation by the Navy  
4           or the Coast Guard.

5           (3) *DURATION.*—Subject to subsection (a)(3)(B),  
6           the Secretary may carry out the testing and evalua-  
7           tion phase of the Program commencing on the date of  
8           the completion of the research and development phase  
9           described in subsection (b), except that the testing and  
10          evaluation phase of the Program with respect to direct  
11          air capture may commence at such time after a front  
12          end engineering and design study demonstrates to the  
13          Secretary that commencement of such phase is appro-  
14          priate.

15          (4) *GRANTS AUTHORIZED.*—The Secretary may  
16          carry out the testing and evaluation phase of the Pro-  
17          gram through the award of grants to private persons  
18          and eligible laboratories.

19          (5) *LOCATIONS.*—The Secretary shall carry out  
20          the testing and evaluation phase of the Program at  
21          military installations or facilities of the Department  
22          of Defense.

23          (6) *REPORT REQUIRED.*—Not later than Sep-  
24          tember 30, 2026, the Secretary shall submit to Con-  
25          gress a report on the findings of the Secretary with

1       *respect to the effectiveness of the technologies tested*  
2       *and evaluated under the Program.*

3       (d) *DEFINITIONS.—In this section:*

4             (1) *BLUE CARBON CAPTURE.—The term “blue*  
5       *carbon capture” means the removal of dissolved car-*  
6       *bon dioxide from seawater through engineered or inor-*  
7       *ganic processes, including filters, membranes, or*  
8       *phase change systems.*

9             (2) *DIRECT AIR CAPTURE.—*

10            (A) *IN GENERAL.—The term “direct air*  
11       *capture”, with respect to a facility, technology,*  
12       *or system, means that the facility, technology, or*  
13       *system uses carbon capture equipment to capture*  
14       *carbon dioxide directly from the air.*

15            (B) *EXCLUSION.—The term “direct air cap-*  
16       *ture” does not include any facility, technology,*  
17       *or system that captures carbon dioxide—*

18                    (i) *that is deliberately released from a*  
19                    *naturally occurring subsurface spring; or*

20                    (ii) *using natural photosynthesis.*

21             (3) *ELIGIBLE LABORATORY.—The term “eligible*  
22       *laboratory” means—*

23                    (A) *a National Laboratory (as defined in*  
24       *section 2 of the Energy Policy Act of 2005 (42*  
25       *U.S.C. 15801)); or*

1           (B) the science and technology reinvention  
2           laboratories (as designated under section 1105 of  
3           the National Defense Authorization Act for Fis-  
4           cal Year 2010 (Public Law 111–84 ; 10 U.S.C.  
5           2358 note));

6           (C) the Major Range and Test Facility Base  
7           (as defined in section 2358a(f)(3) of title 10,  
8           United States Code); and

9           (D) other facilities that support the research  
10          development, test, and evaluation activities of the  
11          Department of Defense or Department of Energy.

12 **SEC. 218. FOREIGN MALIGN INFLUENCE OPERATIONS RE-**  
13 **SEARCH PROGRAM.**

14          (a) *PROGRAM REQUIRED.*—The Secretary of Defense,  
15          acting through the Under Secretary of Defense for Research  
16          and Engineering, shall carry out a research program on  
17          foreign malign influence operations research as part of the  
18          university and other basic research programs of the Depart-  
19          ment of Defense (such as the Minerva Research Initiative).

20          (b) *PROGRAM OBJECTIVES.*—The objectives of the re-  
21          search program shall be the following:

22                  (1) To enhance the understanding of foreign ma-  
23                  lign influence operations, including activities con-  
24                  ducted on social media platforms.

1           (2) *To facilitate the compilation, analysis, and*  
2           *storage of publicly available or voluntarily provided*  
3           *indicators of foreign malign influence operations, in-*  
4           *cluding those appearing on social media platforms,*  
5           *for the purposes of additional research.*

6           (3) *To promote the development of best practices*  
7           *relating to tactics, techniques, procedures, and tech-*  
8           *nology for the protection of the privacy of the cus-*  
9           *tomers and users of the social media platforms and*  
10          *the proprietary information of the social media com-*  
11          *panies in conducting research and analysis or com-*  
12          *piling and storing indicators and key trends of for-*  
13          *oreign malign influence operations on social media*  
14          *platforms.*

15          (4) *To promote collaborative research and infor-*  
16          *mation exchange with other relevant entities within*  
17          *the Department and with other agencies relating to*  
18          *foreign malign influence operations.*

19          (c) *PROGRAM ACTIVITIES.*—*In order to achieve the ob-*  
20          *jectives specified in subsection (b), the Secretary is author-*  
21          *ized to carry out the following activities:*

22               (1) *The Secretary may award research grants to*  
23               *eligible individuals and entities on a competitive*  
24               *basis.*

1           (2) *The Secretary may award financial assist-*  
2           *ance to graduate students on a competitive basis.*

3           (d) *REPORT.—Not later than March 1, 2020, the Sec-*  
4           *retary of Defense shall submit to the congressional defense*  
5           *committees a report on the progress of the Secretary in car-*  
6           *rying out the research program under this section, includ-*  
7           *ing a description of the activities and research conducted*  
8           *as part of the program.*

9           **SEC. 219. SENSOR DATA INTEGRATION FOR FIFTH GENERA-**  
10           **TION AIRCRAFT.**

11           (a) *F-35 SENSOR DATA.—The Secretary of Defense*  
12           *shall ensure that—*

13                   (1) *information collected by the passive and ac-*  
14                   *tive on-board sensors of the F-35 Joint Strike Fighter*  
15                   *aircraft is capable of being shared, in real time, with*  
16                   *joint service users in cases in which the Joint Force*  
17                   *Commander determines that sharing such informa-*  
18                   *tion would be operationally advantageous; and*

19                   (2) *the Secretary has developed achievable, effec-*  
20                   *tive, and suitable concepts and supporting technical*  
21                   *architectures to collect, store, manage, and dissemi-*  
22                   *nate information collected by such sensors.*

23           (b) *GAO STUDY AND REPORT.—*

24                   (1) *STUDY.—The Comptroller General of the*  
25                   *United States shall conduct a study of the sensor data*

1 *collection and dissemination capability of fifth gen-*  
2 *eration aircraft of the Department of Defense.*

3 (2) *ELEMENTS.*—*The study required by para-*  
4 *graph (1) shall include an assessment of the fol-*  
5 *lowing—*

6 (A) *the extent to which the Department has*  
7 *established doctrinal, organizational, or techno-*  
8 *logical methods of managing the large amount of*  
9 *sensor data that is currently collected and which*  
10 *may be collected by existing and planned ad-*  
11 *vanced fifth generation aircraft;*

12 (B) *the status of the existing sensor data*  
13 *collection, storage, dissemination, and manage-*  
14 *ment capability and capacity of fifth generation*  
15 *aircraft, including the F-35, the F-22, and the*  
16 *B-21; and*

17 (C) *the ability of the F-35 aircraft and*  
18 *other fifth generation aircraft to share informa-*  
19 *tion collected by the aircraft in real-time with*  
20 *other joint service users as described in sub-*  
21 *section (a)(1).*

22 (3) *STUDY RESULTS.*—

23 (A) *INTERIM BRIEFING.*—*Not later than*  
24 *180 days after the date of the enactment of this*  
25 *Act, the Comptroller General shall provide to the*

1           *congressional defense committees a briefing on*  
2           *the preliminary findings of the study conducted*  
3           *under this subsection.*

4                   (B) *FINAL RESULTS.*—*The Comptroller*  
5           *General shall provide the final results of the*  
6           *study conducted under this subsection to the con-*  
7           *gressional defense committees at such time and*  
8           *in such format as is mutually agreed upon by*  
9           *the committees and the Comptroller General at*  
10          *the time of the briefing under subparagraph (A).*

11 **SEC. 220. DOCUMENTATION RELATING TO ADVANCED BAT-**  
12                   **TLE MANAGEMENT SYSTEM.**

13           (a) *DOCUMENTATION REQUIRED.*—*Not later than the*  
14          *date specified in subsection (b), the Secretary of the Air*  
15          *Force shall submit to the congressional defense committees*  
16          *the following documentation relating to the Advanced Battle*  
17          *Management System:*

18                   (1) *A list that identifies each program, project,*  
19                  *and activity that comprises the System.*

20                   (2) *The final analysis of alternatives for the Sys-*  
21                  *tem.*

22                   (3) *An acquisition strategy for the System, in-*  
23                  *cluding—*

24                           (A) *an outline of each increment of the Sys-*  
25                          *tem; and*

1                   (B) the date on which each increment will  
2 reach initial operational capability and full  
3 operational capability, respectively.

4                   (4) A capability development document for the  
5 System.

6                   (5) An acquisition program baseline for the Sys-  
7 tem.

8                   (6) A test and evaluation master plan for the  
9 System.

10                  (7) A life-cycle sustainment plan for the System.

11                  (b) DATE SPECIFIED.—The date specified in this sub-  
12 section is the earlier of—

13                   (1) the date that is 180 days after the date on  
14 which the final analysis of alternatives for the Ad-  
15 vanced Battle Management System is completed; or

16                   (2) April 1, 2020.

17                  (c) ADVANCED BATTLE MANAGEMENT SYSTEM DE-  
18 FINED.—In this section, the term “Advanced Battle Man-  
19 agement System” means the Advanced Battle Management  
20 System of Systems capability of the Air Force, including  
21 each program, project, and activity that comprises such ca-  
22 pability.

1 **SEC. 221. DOCUMENTATION RELATING TO B-52 COMMERCIAL**  
2 **ENGINE REPLACEMENT PROGRAM.**

3 (a) *DOCUMENTATION REQUIRED.*—The Secretary of  
4 the Air Force shall submit to the congressional defense com-  
5 mittees the following documentation relating to the B-52  
6 commercial engine replacement program of the Air Force:

7 (1) *A capability development document for the*  
8 *program, approved by the Secretary of the Air Force.*

9 (2) *A test and evaluation master plan for the*  
10 *program, approved by the Director of Operational*  
11 *Test and Evaluation.*

12 (b) *LIMITATION.*—Of the funds authorized to be appro-  
13 priated by this Act or otherwise made available for fiscal  
14 year 2020 for the Air Force, not more than 75 percent may  
15 be obligated or expended until the date on which the Sec-  
16 retary of the Air Force submits to the congressional defense  
17 committees the documentation required under subsection  
18 (a).

19 **SEC. 222. DIVERSIFICATION OF THE SCIENCE, TECH-**  
20 **NOLOGY, RESEARCH, AND ENGINEERING**  
21 **WORKFORCE OF THE DEPARTMENT OF DE-**  
22 **FENSE.**

23 (a) *ASSESSMENT REQUIRED.*—

24 (1) *IN GENERAL.*—The Secretary of Defense, act-  
25 ing through the Under Secretary of Defense for Re-  
26 search and Engineering, shall conduct an assessment

1       of critical skillsets required across the science, tech-  
2       nology, research, and engineering workforce of the De-  
3       partment of Defense to support emerging and future  
4       warfighter technologies.

5               (2) *ELEMENTS.*—*The assessment required by*  
6       *paragraph (1) shall include analysis of the following:*

7                   (A) *The percentage of women and minori-*  
8       *ties employed in the workforce as of the date of*  
9       *the assessment.*

10                  (B) *The percentage of grants, fellowships,*  
11       *and funding awarded to minorities and women.*

12                  (C) *The effectiveness of existing hiring and*  
13       *attraction incentives, other encouragements, and*  
14       *required service agreement commitments in at-*  
15       *tracting and retaining minorities and women in*  
16       *the workforce of the Department after such indi-*  
17       *viduals complete work on Department-funded re-*  
18       *search projects, grant projects, fellowships, and*  
19       *STEM programs.*

20                  (D) *The geographical diversification of the*  
21       *workforce and the operating costs of the work-*  
22       *force across various geographic regions.*

23       (b) *PLAN REQUIRED.*—

24               (1) *IN GENERAL.*—*Based on the results of the as-*  
25       *essment conducted under subsection (a), the Sec-*

1        *retary of Defense, acting through the Under Secretary*  
2        *of Defense for Research and Engineering, shall de-*  
3        *velop and implement a plan to diversify and*  
4        *strengthen the science, technology, research, and engi-*  
5        *neering workforce of the Department of Defense.*

6            (2) *ELEMENTS.—The plan required by para-*  
7        *graph (1) shall—*

8            (A) *align with science and technology strat-*  
9        *egy priorities of the Department of Defense, in-*  
10        *cluding the emerging and future warfighter tech-*  
11        *nology requirements identified by the Depart-*  
12        *ment;*

13            (B) *except as provided in subsection (c)(2),*  
14        *set forth steps for the implementation of each rec-*  
15        *ommendation included in the 2013 report of the*  
16        *RAND corporation titled “First Steps Toward*  
17        *Improving DoD STEM Workforce Diversity”;*

18            (C) *harness the full range of the Depart-*  
19        *ment’s STEM programs and other Department-*  
20        *sponsored programs to develop and attract top*  
21        *talent;*

22            (D) *use existing authorities to attract and*  
23        *retain students, academics, and other talent;*

24            (E) *establish and use contracts, agreements,*  
25        *or other arrangements with institutions of higher*

1            *education (as defined in section 101 of the High-*  
2            *er Education Act of 1965 (20 U.S.C. 1001)), in-*  
3            *cluding historically black colleges and univer-*  
4            *sities and other minority-serving institutions (as*  
5            *described in section 371(a) of such Act (20*  
6            *U.S.C. 1067q(a)) to enable easy and efficient ac-*  
7            *cess to research and researchers for Government-*  
8            *sponsored basic and applied research and studies*  
9            *at each institution, including contracts, agree-*  
10           *ments, and other authorized arrangements such*  
11           *as those authorized under—*

12                    *(i) section 217 of the National Defense*  
13                    *Authorization Act for Fiscal Year 2018*  
14                    *(Public Law 115–91; 10 U.S.C. 2358 note);*  
15                    *and*

16                    *(ii) such other authorities as the Sec-*  
17                    *retary determines to be appropriate; and*

18                    *(F) include recommendations for changes in*  
19                    *authorities, regulations, policies, or any other*  
20                    *relevant areas, that would support the achieve-*  
21                    *ment of the goals set forth in the plan.*

22                    *(3) SUBMITTAL TO CONGRESS.—Not later than*  
23                    *one year after the date of the enactment of this Act,*  
24                    *the Secretary of Defense shall submit to the congres-*  
25                    *sional defense committees a report that includes—*

1           (A) the plan developed under paragraph  
2           (1); and

3           (B) with respect to each recommendation  
4           described in paragraph (2)(B) that the Secretary  
5           implemented or expects to implement—

6                 (i) a summary of actions that have  
7                 been taken to implement the recommenda-  
8                 tion; and

9                 (ii) a schedule, with specific mile-  
10                stones, for completing the implementation of  
11                the recommendation.

12           (c) *DEADLINE FOR IMPLEMENTATION.*—

13                 (1) *IN GENERAL.*—Except as provided in para-  
14                 graph (2), not later than 18 months after the date of  
15                 the enactment of this Act the Secretary of Defense  
16                 shall carry out activities to implement the plan devel-  
17                 oped under subsection (b).

18                 (2) *EXCEPTION FOR IMPLEMENTATION OF CER-*  
19                 *TAIN RECOMMENDATIONS.*—

20                 (A) *DELAYED IMPLEMENTATION.*—The Sec-  
21                 retary of Defense may commence implementation  
22                 of a recommendation described in subsection  
23                 (b)(2)(B) after the date specified in paragraph  
24                 (1) if the Secretary provides the congressional  
25                 defense committees with a specific justification

1           *for the delay in implementation of such rec-*  
2           *ommendation on or before such date.*

3           *(B) NONIMPLEMENTATION.—The Secretary*  
4           *of Defense may opt not to implement a rec-*  
5           *ommendation described in subsection (b)(2)(B) if*  
6           *the Secretary provides to the congressional de-*  
7           *fense committees, on or before the date specified*  
8           *in paragraph (1)—*

9                     *(i) a specific justification for the deci-*  
10                    *sion not to implement the recommendation;*  
11                    *and*

12                    *(ii) a summary of the alternative ac-*  
13                    *tions the Secretary plans to take to address*  
14                    *the issues underlying the recommendation.*

15           *(d) STEM DEFINED.—In this section, the term*  
16           *“STEM” means science, technology, engineering, and math-*  
17           *ematics.*

18   **SEC. 223. POLICY ON THE TALENT MANAGEMENT OF DIG-**  
19                    **ITAL EXPERTISE AND SOFTWARE PROFES-**  
20                    **SIONALS.**

21           *(a) POLICY.—*

22                    *(1) IN GENERAL.—It shall be a policy of the De-*  
23                    *partment of Defense to promote and maintain digital*  
24                    *expertise and software development as core com-*  
25                    *petencies of civilian and military workforces of the*

1        *Department, and as a capability to support the Na-*  
2        *tional Defense Strategy, which policy shall be*  
3        *achieved by—*

4                *(A) the recruitment, development, and*  
5                *incentivization of retention in and to the civil-*  
6                *ian and military workforce of the Department of*  
7                *individuals with aptitude, experience, proficient*  
8                *expertise, or a combination thereof in digital ex-*  
9                *pertise and software development;*

10               *(B) at the discretion of the Secretaries of the*  
11               *military departments, the development and*  
12               *maintenance of civilian and military career*  
13               *tracks related to digital expertise, and related*  
14               *digital competencies for members of the Armed*  
15               *Forces, including the development and mainte-*  
16               *nance of training, education, talent manage-*  
17               *ment, incentives, and promotion policies in sup-*  
18               *port of members at all levels of such career*  
19               *tracks; and*

20               *(C) the development and application of ap-*  
21               *propriate readiness standards and metrics to*  
22               *measure and report on the overall capability, ca-*  
23               *capacity, utilization, and readiness of digital engi-*  
24               *neering professionals to develop and deliver oper-*

1           *ational capabilities and employ modern business*  
2           *practices.*

3           (2) *DEFINITIONS.*—*For purposes of this section,*  
4           *“digital engineering” is the discipline and set of skills*  
5           *involved in the creation, processing, transmission, in-*  
6           *tegration, and storage of digital data, (including but*  
7           *not limited to data science, machine learning, soft-*  
8           *ware engineering, software product management, and*  
9           *artificial intelligence product management).*

10          (b) *RESPONSIBILITY.*—

11           (1) *APPOINTMENT OF OFFICER.*—*Not later than*  
12           *270 days after the date of enactment of this Act, the*  
13           *Secretary of Defense shall appoint a civilian official*  
14           *responsible for the development and implementation*  
15           *of the policy set forth in subsection (a). The official*  
16           *shall be known as the “Chief Digital Engineering Re-*  
17           *ruitment and Management Officer of the Department*  
18           *of Defense” (in this section referred to as the “Offi-*  
19           *cer”).*

20           (2) *EXPIRATION OF APPOINTMENT.*—*The ap-*  
21           *pointment of the Officer under paragraph (1) shall*  
22           *expire on September 30, 2029.*

23           (c) *DUTIES.*—*In developing and providing for the dis-*  
24           *charge of the policy set forth in subsection (a), the Officer*  
25           *shall work with the Assistant Secretaries of the military*

1 *departments for Manpower and Reserve Affairs to carry out*  
2 *the following:*

3           (1) *Develop for, and enhance within, the recruit-*  
4 *ment programs of each Armed Force various core ini-*  
5 *tiatives, programs, activities, and mechanisms, tai-*  
6 *lored to the unique needs of each Armed Force, to*  
7 *identify and recruit civilian employees and members*  
8 *of the Armed Forces with demonstrated aptitude, in-*  
9 *terest, and proficiency in digital engineering, and in*  
10 *science, technology, engineering, and mathematics*  
11 *(STEM) generally, including initiatives, programs,*  
12 *activities, and mechanisms to target populations of*  
13 *individuals not typically aware of opportunities in*  
14 *the Department of Defense for a digital engineering*  
15 *career.*

16           (2) *Identify and share with the military depart-*  
17 *ments best practices around the development of flexi-*  
18 *ble career tracks and identifiers for digital engineer-*  
19 *ing and related digital competencies and meaningful*  
20 *opportunities for career development, talent manage-*  
21 *ment, and promotion within such career tracks.*

22           (3) *Develop and maintain education, training,*  
23 *doctrine, rotational opportunities, and professional*  
24 *development activities to support the civilian and*  
25 *military digital engineering workforce.*

1           (4) *Coordinate and synchronize digital force*  
2           *management activities throughout the Department of*  
3           *Defense, advise the Secretary of Defense on all matters*  
4           *pertaining to the health and readiness of digital*  
5           *forces, convene a Department-wide executive steering*  
6           *group, and submit to Congress an annual report on*  
7           *the readiness of digital forces and progress toward*  
8           *achieving the policy set forth in subsection (a).*

9           (5) *Create a Department-wide mechanism to*  
10          *track digital expertise in the workforce, develop and*  
11          *maintain organizational policies, strategies, and*  
12          *plans sufficient to build, maintain, and refresh inter-*  
13          *nal capacity at scale, and report to the Secretary*  
14          *quarterly on the health and readiness the digital engi-*  
15          *neering workforce.*

16          (6) *Assist the military departments in designing,*  
17          *developing, and executing programs and incentives to*  
18          *retain, track, and oversee digital expertise among ci-*  
19          *vilian employees of the Department and members of*  
20          *the Armed Forces on active duty.*

21          (7) *At the request of the Chief of Staff of an*  
22          *Armed Force, or the head of another component or*  
23          *element of the Department, undertake an executive*  
24          *search for key leadership positions in digital engi-*  
25          *neering in such Armed Force, component, or element,*



1           (1) *IN GENERAL.*—*The Under Secretary of De-*  
2 *fense for Research and Engineering and the Director*  
3 *of Operational Test and Evaluation shall jointly de-*  
4 *sign, develop, and implement a digital engineering*  
5 *capability and infrastructure—*

6                   (A) *to provide technically accurate digital*  
7 *models to the acquisition process; and*

8                   (B) *to serve as the foundation for auto-*  
9 *mated approaches to software testing and evalua-*  
10 *tion.*

11           (2) *ELEMENTS.*—*The capability developed under*  
12 *subsection (a) shall consist of digital platforms that*  
13 *may be accessed by individuals throughout the De-*  
14 *partment who have responsibilities relating to the de-*  
15 *velopment, testing, evaluation, and operation of soft-*  
16 *ware. The platforms shall enable such individuals*  
17 *to—*

18                   (A) *use systems-level digital representations*  
19 *and simulation environments;*

20                   (B) *perform automated software testing*  
21 *based on criteria developed, in part, in consulta-*  
22 *tion with the Under Secretary’s developmental*  
23 *test organization and the Director to satisfy pro-*  
24 *gram operational test requirements; and*

1           (C) perform testing on a repeatable, fre-  
2           quent, and iterative basis.

3           (b) *PILOT PROGRAMS.*—

4           (1) *IN GENERAL.*—*The Under Secretary and Di-*  
5           *rector shall carry out pilot programs to demonstrate*  
6           *whether it is possible for automated testing to sat-*  
7           *isfy—*

8                   (A) *developmental test requirements for the*  
9                   *software-intensive programs of the Department of*  
10                  *Defense; and*

11                   (B) *the Director’s operational test require-*  
12                  *ments for such programs.*

13           (2) *NUMBER OF PILOT PROGRAMS.*—*The Under*  
14           *Secretary and Director shall carry out not fewer than*  
15           *four and not more than ten pilot programs under this*  
16           *section.*

17           (3) *REQUIREMENTS.*—*For each pilot program*  
18           *carried out under paragraph (1), the Under Secretary*  
19           *and Director shall—*

20                   (A) *conduct a cost-benefit analysis that*  
21                   *compares the costs and benefits of the digital en-*  
22                   *gineering and automated testing approach of the*  
23                   *pilot program to the nondigital engineering*  
24                   *based approach typically used by the Depart-*  
25                   *ment of Defense;*

1           (B) ensure that the intellectual property  
2           strategy for the pilot program supports the data  
3           required to operate the models used under the  
4           program; and

5           (C) develop a workforce and infrastructure  
6           plan to support any new policies and guidance  
7           implemented during the pilot program or after  
8           the completion of the program.

9           (4) *CONSIDERATIONS.*—In carrying out para-  
10          graph (1), the Under Secretary and Director may  
11          consider using the authorities provided under sections  
12          873 and 874 of the National Defense Authorization  
13          Act for Fiscal Year 2018 (Public Law 115–91).

14          (5) *REPORT.*—Not later than 90 days after the  
15          date of the enactment of this Act, the Under Secretary  
16          and Director shall submit to the congressional defense  
17          committees a report that includes a description of—

18                 (A) each pilot program that will be carried  
19                 out under paragraph (1);

20                 (B) software programs that may be used as  
21                 part of each pilot program;

22                 (C) selection criteria and intellectual prop-  
23                 erty and licensing issues relating to such soft-  
24                 ware programs;

1           (D) any recommendations for changes to ex-  
2           isting law to facilitate the implementation of the  
3           pilot programs; and

4           (E) such other matters as the Under Sec-  
5           retary and Director determine to be relevant.

6           (6) *TERMINATION.*—Each pilot program carried  
7           out under paragraph (1) shall terminate not later  
8           than December 31, 2025.

9           (c) *POLICIES AND GUIDANCE REQUIRED.*—

10           (1) *IN GENERAL.*—The Under Secretary and the  
11           Director shall issue policies and guidance to imple-  
12           ment—

13           (A) the digital engineering capability and  
14           infrastructure developed under subsection (a);  
15           and

16           (B) the pilot programs carried out under  
17           subsection (b).

18           (2) *ELEMENTS.*—The policies and guidance  
19           issued under paragraph (1) shall—

20           (A) specify procedures for developing and  
21           maintaining digital engineering models and the  
22           automated testing of software throughout the pro-  
23           gram life cycle;

1           (B) include processes for automated testing  
2 of developmental test requirements and oper-  
3 ational test requirements;

4           (C) include processes for automated security  
5 testing, including—

6                 (i) penetration testing; and

7                 (ii) vulnerability scanning;

8           (D) include processes for security testing  
9 performed by individuals, including red team as-  
10 sssments with zero-trust assumptions;

11           (E) encourage the use of an automated test-  
12 ing capability instead of acquisition-related  
13 processes that require artifacts to be created for  
14 acquisition oversight but are not used as part of  
15 the engineering process;

16           (F) support the high-confidence distribution  
17 of software to the field on a time-bound, repeat-  
18 able, frequent, and iterative basis;

19           (G) provide technically accurate models, in-  
20 cluding models of system design and perform-  
21 ance, to the acquisition process; and

22           (H) ensure that models are continually up-  
23 dated with the newest design, performance, and  
24 testing data.

1           (d) *CONSULTATION.*—*In carrying out subsections (a)*  
2 *through (c), the Under Secretary and Director shall consult*  
3 *with—*

4                   (1) *the Under Secretary of Defense for Acquisi-*  
5 *tion and Sustainment;*

6                   (2) *the service acquisition executives;*

7                   (3) *the service testing commands; and*

8                   (4) *the Defense Digital Service.*

9           (e) *REPORT REQUIRED.*—*Not later one year after the*  
10 *date of the enactment of this Act, the Under Secretary and*  
11 *Director shall submit to the congressional defense commit-*  
12 *tees a report on the progress of the Under Secretary and*  
13 *Director in carrying out subsections (a) through (c). The*  
14 *report shall include—*

15                   (1) *an independent assessment conducted by the*  
16 *Defense Innovation Board of the progress made as of*  
17 *the date of the report;*

18                   (2) *an explanation of how the results of the pilot*  
19 *programs carried out under subsection (b) will inform*  
20 *subsequent policy and guidance, particularly the pol-*  
21 *icy and guidance of the Director of Operational Test*  
22 *and Evaluation; and*

23                   (3) *any recommendations for changes to existing*  
24 *law to facilitate the implementation of subsections (a)*  
25 *through (c).*

1 (f) *DEFINITIONS.*—*In this section:*

2 (1) *The term “Under Secretary and Director”*  
3 *means the Under Secretary of Defense for Research*  
4 *and Engineering and the Director of Operational Test*  
5 *and Evaluation, acting jointly.*

6 (2) *The term “digital engineering” means an in-*  
7 *tegrated digital approach that uses authoritative*  
8 *sources of system data and models as a continuum*  
9 *across disciplines to support life-cycle activities from*  
10 *concept through disposal.*

11 (3) *The term “zero-trust assumption” means a*  
12 *security architecture philosophy designed to prevent*  
13 *all threats, including insider threats and outsider*  
14 *threats.*

15 (4) *The term “red team assessment” means pene-*  
16 *tration tests and operations performed on a system to*  
17 *emulate a capable adversary to expose security*  
18 *vulnerabilities.*

19 **SEC. 225. PROCESS TO ALIGN POLICY FORMULATION AND**  
20 **EMERGING TECHNOLOGY DEVELOPMENT.**

21 (a) *ALIGNMENT OF POLICY AND TECHNOLOGICAL DE-*  
22 *VELOPMENT.*—*Not later than 180 days after the date of the*  
23 *enactment of this Act, the Secretary of Defense shall estab-*  
24 *lish a process to ensure that the policies of the Department*  
25 *of Defense relating to emerging technology are formulated*

1 *and updated continuously as such technology is developed*  
2 *by the Department.*

3 (b) *ELEMENTS.—As part of the process established*  
4 *under subsection (a), the Secretary shall—*

5 (1) *specify the role of each covered official in en-*  
6 *sureing that the formulation of policies relating to*  
7 *emerging technology is carried out concurrently with*  
8 *the development of such technology;*

9 (2) *establish mechanisms to ensure that the*  
10 *Under Secretary of Defense for Policy has the infor-*  
11 *mation and resources necessary to continuously for-*  
12 *mulate and update policies relating to emerging tech-*  
13 *nology, including by directing the organizations and*  
14 *entities of the Department of Defense responsible for*  
15 *the development such technology—*

16 (A) *to share information with the Under*  
17 *Secretary;*

18 (B) *to communicate plans for the fielding*  
19 *and use of emerging technology to the Under Sec-*  
20 *retary; and*

21 (C) *to coordinate activities relating to such*  
22 *technology with the Under Secretary; and*

23 (3) *incorporate procedures for the legal review*  
24 *of—*

1           (A) *weapons that incorporate emerging*  
2           *technology; and*

3           (B) *treaties that may be affected by such*  
4           *technology.*

5       (c) *REPORTS REQUIRED.—*

6           (1) *INTERIM REPORT.—Not later than 60 days*  
7           *after the date of the enactment of this Act, the Sec-*  
8           *retary of Defense shall submit to the congressional de-*  
9           *fense committees a report on the progress of the Sec-*  
10          *retary in carrying out subsection (a).*

11          (2) *FINAL REPORT.—Not later than 30 days*  
12          *after date on which the Secretary of Defense estab-*  
13          *lishes the process required under subsection (a), the*  
14          *Secretary shall submit to the congressional defense*  
15          *committees a report that describes such process.*

16       (d) *DEFINITIONS.—In this section:*

17           (1) *The term “covered official” means the Chair-*  
18           *man of the Joint Chiefs of Staff, the Under Secretary*  
19           *of Defense for Research and Engineering, the Under*  
20           *Secretary of Defense for Policy, the commanders of*  
21           *the combatant commands, and the Secretaries of the*  
22           *military departments.*

23           (2) *The term “emerging technology” means tech-*  
24           *nology determined to be in an emerging phase of de-*  
25           *velopment by the Secretary of Defense and includes*



1           (2) *ELEMENTS.*—*The plan required under para-*  
2 *graph (1) shall include the following:*

3           (A) *A timeline for the potential transition*  
4 *or transfer of the activities, functions, programs,*  
5 *plans, and resources of the Strategic Capabilities*  
6 *Office.*

7           (B) *The status of funding and execution of*  
8 *current Strategic Capabilities Office projects, in-*  
9 *cluding a strategy for mitigating risk to current*  
10 *projects during the transition or transfer.*

11          (C) *The impact of the transition or transfer*  
12 *on the ability of the Department to rapidly ad-*  
13 *dress Combatant Command requirements.*

14          (D) *The impact of the transition or transfer*  
15 *on the cultural attributes and core competencies*  
16 *of the Strategic Capabilities Office and any or-*  
17 *ganization or element of the Department of De-*  
18 *fense affected by the realignment of the Office.*

19          (E) *An assessment of the impact of the*  
20 *transition or transfer on the relationships of the*  
21 *Strategic Capabilities Office with the military*  
22 *departments, Combatant Commands, Depart-*  
23 *ment of Defense laboratories, the intelligence*  
24 *community, and other research and development*  
25 *activities.*

1           (F) Budget and programming realignment  
2           and prioritization of Research, Development,  
3           Testing, and Evaluation budget activity that  
4           will be carried out as a result of the transition  
5           or transfer.

6           (G) The status of the essential authorities of  
7           the Director of the Strategic Capabilities Office,  
8           including acquisition authorities, personnel  
9           management authorities, the authority to enter  
10          into support agreements and strategic partner-  
11          ships, and original classification authority.

12          (3) FORM OF PLAN.—The plan required under  
13          paragraph (1) shall be submitted in unclassified form,  
14          but may include a classified annex.

## 15           **Subtitle C—Reports and Other** 16           **Matters**

### 17   **SEC. 231. MASTER PLAN FOR IMPLEMENTATION OF AU-** 18           **THORITIES RELATING TO SCIENCE AND** 19           **TECHNOLOGY REINVENTION LABORATORIES.**

20          (a) PLAN REQUIRED.—The Secretary of Defense, act-  
21          ing through the Under Secretary of Defense for Research  
22          and Engineering, shall develop a master plan for using cur-  
23          rent authorities and responsibilities to strengthen and mod-  
24          ernize the workforce and capabilities of the science and tech-  
25          nology reinvention laboratories of the Department of De-

1 *fense (referred to in this section as the “laboratories”) to*  
2 *enhance the ability of the laboratories to execute missions*  
3 *in the most efficient and effective manner.*

4       **(b) ELEMENTS.**—*The master plan required under sub-*  
5 *section (a) shall include, with respect to the laboratories,*  
6 *the following:*

7           **(1)** *A summary of hiring and staffing defi-*  
8 *ciencies at laboratories, by location, and the effect of*  
9 *such deficiencies on the ability of the laboratories—*

10                   **(A)** *to meet existing and future require-*  
11 *ments of the Department of Defense; and*

12                   **(B)** *to recruit and retain qualified per-*  
13 *sonnel.*

14           **(2)** *A summary of existing and emerging mili-*  
15 *tary research, development, test, and evaluation mis-*  
16 *sion areas requiring the use of the laboratories.*

17           **(3)** *An explanation of the laboratory staffing ca-*  
18 *pabilities required for each mission area identified*  
19 *under paragraph (2).*

20           **(4)** *Identification of specific projects, including*  
21 *hiring efforts and management reforms, that will be*  
22 *carried out—*

23                   **(A)** *to address the deficiencies identified in*  
24 *paragraph (1); and*

1           (B) to support the existing and emerging  
2           mission areas identified in paragraph (2).

3           (5) For each project identified under paragraph  
4           (4)—

5                   (A) a summary of the plan for the project;

6                   (B) an explanation of the level of priority  
7           that will be given to the project; and

8                   (C) a schedule of required investments that  
9           will be made as part of the project.

10          (6) A description of how the Department, includ-  
11          ing each military department concerned, will carry  
12          out the projects identified in paragraph (3) using—

13                   (A) current authorities and responsibilities;  
14          and

15                   (B) such other authorities as are determined  
16          to be relevant by the Secretary of Defense.

17          (7) Identification of any statutory barriers to  
18          implementing the master plan and legislative pro-  
19          posals to address such barriers.

20          (c) CONSULTATION.—In developing the master plan re-  
21          quired under subsection (a), the Secretary of Defense and  
22          the Under Secretary of Defense for Research and Engineer-  
23          ing shall consult with—

24                   (1) the Secretary of each military department;

1           (2) *the Service Acquisition Executives with re-*  
2            *sponsibilities relevant to the laboratories;*

3           (3) *the commander of each military command*  
4            *with responsibilities relating to research and engi-*  
5            *neering that is affected by the master plan; and*

6           (4) *any other officials determined to be relevant*  
7            *by the Secretary of Defense and the Under Secretary*  
8            *of Defense for Research and Engineering.*

9           (d) *INITIAL REPORT.*—*Not later than 180 days after*  
10           *the date of the enactment of this Act, the Under Secretary*  
11           *of Defense for Research and Engineering shall submit to*  
12           *the congressional defense committees a report that identifies*  
13           *any barriers that prevent the full use and implementation*  
14           *of current authorities and responsibilities and such other*  
15           *authorities as are determined to be relevant by the Sec-*  
16           *retary of Defense, including any barriers presented by the*  
17           *policies, authorities, and activities of—*

18                 (1) *organizations and elements of the Depart-*  
19                  *ment of Defense; and*

20                 (2) *organizations outside the Department.*

21           (e) *FINAL REPORT.*—*Not later than October 30, 2020,*  
22           *the Under Secretary of Defense for Research and Engineer-*  
23           *ing shall submit to the congressional defense committees—*

24                 (1) *the master plan developed under subsection*

25                 (a); *and*

1           (2) *a report on the activities carried out under*  
2       *this section.*

3 **SEC. 232. MASTER PLAN FOR INFRASTRUCTURE REQUIRED**  
4                   **TO SUPPORT RESEARCH, DEVELOPMENT,**  
5                   **TEST, AND EVALUATION MISSIONS.**

6       (a) *PLAN REQUIRED.*—*The Secretary of Defense, in*  
7 *consultation with the Secretaries of the military depart-*  
8 *ments, shall develop and implement a master plan that ad-*  
9 *dresses the research, development, test, and evaluation in-*  
10 *frastructure and modernization requirements of the Depart-*  
11 *ment of Defense, including the science and technology re-*  
12 *invention laboratories and the facilities of the Major Range*  
13 *and Test Facility Base.*

14       (b) *ELEMENTS.*—*The master plan required under sub-*  
15 *section (a) shall include, with respect to the research, devel-*  
16 *opment, test, and evaluation infrastructure of the Depart-*  
17 *ment of Defense, the following:*

18           (1) *A summary of deficiencies in the infrastruc-*  
19 *ture, by location, and the effect of the deficiencies on*  
20 *the ability of the Department—*

21                   (A) *to meet current and future military re-*  
22 *quirements identified in the National Defense*  
23 *Strategy;*

24                   (B) *to support science and technology devel-*  
25 *opment and acquisition programs; and*

1                   (C) to recruit and train qualified personnel.

2                   (2) A summary of existing and emerging mili-  
3                   tary research, development, test, and evaluation mis-  
4                   sion areas, by location, that require modernization  
5                   investments in the infrastructure—

6                   (A) to improve operations in a manner that  
7                   may benefit all users;

8                   (B) to enhance the overall capabilities of the  
9                   research, development, test, and evaluation infra-  
10                  structure, including facilities and resources;

11                  (C) to improve safety for personnel and fa-  
12                  cilities; and

13                  (D) to reduce the long-term cost of operation  
14                  and maintenance.

15                  (3) Identification of specific infrastructure  
16                  projects that are required to address the infrastruc-  
17                  ture deficiencies identified under paragraph (1) or to  
18                  support the existing and emerging mission areas  
19                  identified under paragraph (2).

20                  (4) For each project identified under paragraph  
21                  (3)—

22                         (A) a description of the scope of work;

23                         (B) a cost estimate;

24                         (C) a summary of the plan for the project;

1           (D) an explanation of the level of priority  
2 that will be given to the project; and

3           (E) a schedule of required infrastructure in-  
4 vestments.

5           (5) A description of how the Department, includ-  
6 ing each military department concerned, will carry  
7 out the infrastructure projects identified in paragraph  
8 (3) using the range of authorities and methods avail-  
9 able to the Department, including—

10           (A) military construction authority under  
11 section 2802 of title 10, United States Code;

12           (B) unspecified minor military construction  
13 authority under section 2805(a) of such title;

14           (C) laboratory revitalization authority  
15 under section 2805(d) of such title;

16           (D) the authority to carry out facility re-  
17 pair projects, including the conversion of existing  
18 facilities, under section 2811 of such title;

19           (E) the authority provided under the De-  
20 fense Laboratory Modernization Pilot Program  
21 under section 2803 of the National Defense Au-  
22 thorization Act for Fiscal Year 2016 (Public  
23 Law 114–92; 10 U.S.C. 2358 note);

24           (F) methods that leverage funding from en-  
25 tities outside the Department, including public-

1           *private partnerships, enhanced use leases, real*  
2           *property exchanges; and*

3                   *(G) any other authorities and methods de-*  
4           *termined to be appropriate by the Secretary of*  
5           *Defense.*

6           *(6) Identification of any statutory, regulatory, or*  
7           *policy barriers to implementing the master plan and*  
8           *regulatory, policy, or legislative proposals to address*  
9           *such barriers.*

10          *(c) CONSULTATION AND USE OF CONTRACT AUTHOR-*  
11          *ITY.—In implementing the plan required under subsection*  
12          *(a), the Secretary of Defense shall—*

13                   *(1) consult with existing and anticipated users of*  
14           *the Major Range and Test Facility Base; and*

15                   *(2) consider using the contract authority pro-*  
16           *vided to the Secretary under section 2681 of title 10,*  
17           *United States Code.*

18          *(d) SUBMISSION TO CONGRESS.—Not later than Octo-*  
19          *ber 30, 2020, the Secretary of Defense shall submit to the*  
20          *congressional defense committees the master plan developed*  
21          *under subsection (a).*

22          *(e) RESEARCH AND DEVELOPMENT INFRASTRUCTURE*  
23          *DEFINED.—In this section, the term “research, develop-*  
24          *ment, test, and evaluation infrastructure” means the infra-*  
25          *structure of—*

1           (1) *the science and technology reinvention laboratories (as designated under section 1105 of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84 ; 10 U.S.C. 2358 note));*

5           (2) *the Major Range and Test Facility Base (as defined in section 2358a(f)(3) of title 10, United States Code); and*

8           (3) *other facilities that support the research development, test, and evaluation activities of the Department.*

11 **SEC. 233. STRATEGY AND IMPLEMENTATION PLAN FOR**  
12                                   **FIFTH GENERATION INFORMATION AND COM-**  
13                                   **MUNICATIONS TECHNOLOGIES.**

14           (a) *IN GENERAL.*—*Not later than 270 days after the*  
15 *date of the enactment of this Act, the Secretary of Defense*  
16 *shall develop—*

17           (1) *a strategy for harnessing fifth generation*  
18 *(commonly known as “5G”) information and commu-*  
19 *nications technologies to enhance military capabili-*  
20 *ties, maintain a technological advantage on the bat-*  
21 *tlefield, and accelerate the deployment of new com-*  
22 *mmercial products and services enabled by 5G networks*  
23 *throughout the Department of Defense; and*

24           (2) *a plan for implementing the strategy devel-*  
25 *oped under paragraph (1).*

1       (b) *ELEMENTS.*—*The strategy required under sub-*  
2 *section (a) shall include the following elements:*

3           (1) *Adoption and use of secure fourth generation*  
4 *(commonly known as “4G”) communications tech-*  
5 *nologies and the transition to advanced and secure*  
6 *5G communications technologies for military applica-*  
7 *tions.*

8           (2) *Science, technology, research, and develop-*  
9 *ment efforts to facilitate the advancement and adop-*  
10 *tion of 5G technology and new uses of 5G systems,*  
11 *subsystems, and components, including—*

12               (A) *5G testbeds for developing military ap-*  
13 *plications; and*

14               (B) *spectrum-sharing technologies and*  
15 *frameworks.*

16           (3) *Strengthening engagement and outreach with*  
17 *industry, academia, international partners, and other*  
18 *departments and agencies of the Federal Government*  
19 *on issues relating to 5G technology.*

20           (4) *Defense industrial base supply chain risk,*  
21 *management, and opportunities.*

22           (5) *Preserving the ability of the Joint Force to*  
23 *achieve objectives in a contested and congested spec-*  
24 *trum environment.*

1           (6) *Strengthening the ability of the Joint Force*  
2           *to conduct full spectrum operations that enhance the*  
3           *military advantages of the United States.*

4           (7) *Securing the information technology and*  
5           *weapon systems of the Department against malicious*  
6           *activity.*

7           (8) *Such other matters as the Secretary of De-*  
8           *fense determines to be relevant.*

9           (c) *CONSULTATION.*—*In developing the strategy and*  
10          *implementation plan required under subsection (a), the*  
11          *Secretary of Defense shall consult with the following:*

12           (1) *The Chief Information Officer of the Depart-*  
13           *ment of Defense.*

14           (2) *The Under Secretary of Defense for Research*  
15           *and Engineering.*

16           (3) *The Under Secretary of Defense for Acquisi-*  
17           *tion and Sustainment.*

18           (4) *The Under Secretary of Defense for Intel-*  
19           *ligence.*

20           (5) *Service Acquisition Executives of each mili-*  
21           *tary service.*

22          (d) *BRIEFING.*—*Not later than 180 days after the date*  
23          *of the enactment of this Act, the Secretary of Defense shall*  
24          *provide to the congressional defense committees a briefing*

1 *on the progress of the Secretary in developing the strategy*  
2 *and implementation plan required under subsection (a).*

3 **SEC. 234. DEPARTMENT-WIDE SOFTWARE SCIENCE AND**  
4 **TECHNOLOGY STRATEGY.**

5 (a) *DESIGNATION OF SENIOR OFFICIAL.*—*Not later*  
6 *than 180 days after the date of the enactment of this Act,*  
7 *the Secretary of Defense, acting through the Under Sec-*  
8 *retary of Defense for Research and Engineering and in con-*  
9 *sultation with the Under Secretary of Defense for Acquisi-*  
10 *tion and Sustainment, shall designate a single official or*  
11 *existing entity within the Department of Defense as the offi-*  
12 *cial or entity (as the case may be) with principal responsi-*  
13 *bility for guiding the direction of research and development*  
14 *of next generation software and software intensive systems*  
15 *for the Department, including the research and development*  
16 *of—*

17 (1) *new technologies for the creation of highly se-*  
18 *cure, reliable, and mission-critical software; and*

19 (2) *new approaches to software development,*  
20 *data-based analytics, and next generation manage-*  
21 *ment tools.*

22 (b) *DEVELOPMENT OF STRATEGY.*—*The official or en-*  
23 *tity designated under subsection (a) shall develop a Depart-*  
24 *ment-wide strategy for the research and development of next*

1 *generation software and software intensive systems for the*  
2 *Department of Defense, including strategies for—*

3 *(1) types of software innovation efforts within*  
4 *the science and technology portfolio of the Depart-*  
5 *ment;*

6 *(2) investment in new approaches to software de-*  
7 *velopment, data-based analytics, and next generation*  
8 *management tools;*

9 *(3) ongoing research and other support of aca-*  
10 *ademic, commercial, and development community ef-*  
11 *forts to innovate the software development, engineer-*  
12 *ing, and testing process;*

13 *(4) to the extent practicable, implementing the*  
14 *recommendations set forth in—*

15 *(A) the final report of the Defense Innova-*  
16 *tion Board submitted to the congressional defense*  
17 *committees under section 872 of the National De-*  
18 *fense Authorization Act for Fiscal Year 2018*  
19 *(Public Law 115–91; 131 Stat. 1497); and*

20 *(B) the final report of the Defense Science*  
21 *Board Task Force on the Design and Acquisition*  
22 *of Software for Defense Systems described in sec-*  
23 *tion 868 of the John S. McCain National Defense*  
24 *Authorization Act for Fiscal Year 2019 (Public*  
25 *Law 115–232; 10 U.S.C. 2223 note);*

1           (5) *supporting the acquisition, technology devel-*  
2 *opment, and test and operational needs of the Depart-*  
3 *ment through the development of capabilities, includ-*  
4 *ing personnel and infrastructure, and programs in—*

5                 (A) *the science and technology reinvention*  
6 *laboratories (as designated under section 1105 of*  
7 *the National Defense Authorization Act for Fis-*  
8 *cal Year 2010 (Public Law 111–84; 10 U.S.C.*  
9 *2358 note));*

10                (B) *the facilities of the Major Range and*  
11 *Test Facility Base (as defined in section*  
12 *2358a(f)(3) of title 10, United States Code); and*

13                (C) *the Defense Advanced Research Projects*  
14 *Agency; and*

15           (6) *the transition of relevant capabilities and*  
16 *technologies to information technology programs of*  
17 *the Department, including software intensive tactical*  
18 *systems, enterprise systems, and business systems.*

19           (c) *SUBMITTAL TO CONGRESS.—Not later than one*  
20 *year after the date of the enactment of this Act, the official*  
21 *or entity designated under subsection (a) shall submit to*  
22 *the congressional defense committees the strategy developed*  
23 *under subsection (b).*

1 **SEC. 235. ARTIFICIAL INTELLIGENCE EDUCATION STRAT-**  
2 **EGY.**

3 (a) *STRATEGY REQUIRED.*—

4 (1) *IN GENERAL.*—*The Secretary of Defense shall*  
5 *develop a strategy for educating service members in*  
6 *relevant occupational fields on matters relating to ar-*  
7 *tificial intelligence.*

8 (2) *ELEMENTS.*—*The strategy developed under*  
9 *subsection (a) shall include a curriculum designed to*  
10 *give service members a basic knowledge of artificial*  
11 *intelligence. The curriculum shall include instruction*  
12 *in—*

13 (A) *artificial intelligence design;*

14 (B) *software coding;*

15 (C) *potential military applications for arti-*  
16 *ficial intelligence;*

17 (D) *the impact of artificial intelligence on*  
18 *military strategy and doctrine;*

19 (E) *artificial intelligence decisionmaking*  
20 *via machine learning and neural networks;*

21 (F) *ethical issues relating to artificial intel-*  
22 *ligence;*

23 (G) *the potential biases of artificial intel-*  
24 *ligence;*

25 (H) *potential weakness in artificial intel-*  
26 *ligence technology; and*

1                   (I) any other matters the Secretary of De-  
2                   fense determines to be relevant.

3           (b) IMPLEMENTATION PLAN.—

4                   (1) IN GENERAL.—The Secretary of Defense shall  
5                   develop a plan for implementing the strategy devel-  
6                   oped under subsection (a).

7                   (2) ELEMENTS.—The implementation plan re-  
8                   quired under paragraph (1) shall identify the fol-  
9                   lowing:

10                   (A) The military occupational specialties  
11                   (applicable to enlisted members and officers) that  
12                   are most likely to involve interaction with artifi-  
13                   cial intelligence technology.

14                   (B) The specific occupational specialties  
15                   that will receive training in accordance with the  
16                   curriculum described in subsection (a)(2).

17                   (C) The duration of the training.

18                   (D) The context in which the training will  
19                   be provided, which may include basic training,  
20                   occupationally specific training, and profes-  
21                   sional military education.

22                   (E) Metrics for evaluating the effectiveness  
23                   of the training and curriculum.

24                   (F) Any other issues the Secretary of De-  
25                   fense determines to be relevant.

1       (c) *SUBMITTAL TO CONGRESS.*—Not later than 270  
2 days after the date of the enactment of this Act, the Sec-  
3 retary of Defense shall submit to the congressional defense  
4 committees—

5           (1) the strategy developed under subsection (a);  
6       and

7           (2) the implementation plan developed under  
8       subsection (b).

9       **SEC. 236. BIENNIAL REPORT ON THE JOINT ARTIFICIAL IN-**  
10                                   **TELLIGENCE CENTER.**

11       (a) *REPORT.*—Not later than 90 days after the date  
12 of the enactment of this Act and biennially thereafter  
13 through the end of 2023, the Secretary of Defense shall sub-  
14 mit to the congressional defense committees a report on the  
15 Joint Artificial Intelligence Center (referred to in this sec-  
16 tion as the “Center”).

17       (b) *ELEMENTS.*—Each report under subsection (a)  
18 shall include the following:

19           (1) Information relating to the mission and ob-  
20 jectives of the Center.

21           (2) A description of the National Mission Initia-  
22 tives, Component Mission Initiatives, and any other  
23 initiatives of the Center, including a description of—

24                   (A) the activities carried out under the ini-  
25                   tiatives;

1           (B) any investments made or contracts en-  
2           tered into under the initiatives; and

3           (C) the progress of the initiatives.

4           (3) A description of how the Center has sought  
5           to leverage lessons learned, share best practices, avoid  
6           duplication of efforts, and transition artificial intel-  
7           ligence research efforts into operational capabilities  
8           by—

9           (A) collaborating with other organizations  
10           and elements of the Department of Defense, in-  
11           cluding the Defense Agencies and the military  
12           departments; and

13           (B) deconflicting the activities of the Center  
14           with the activities of other organizations and ele-  
15           ments of the Department.

16           (4) A description any collaboration between—

17           (A) the Center and the private sector and  
18           academia; and

19           (B) the Center and international allies and  
20           partners.

21           (5) The total number of military, contractor, and  
22           civilian personnel who are employed by the Center,  
23           assigned to the Center, and performing functions in  
24           support of the Center.



1 *representatives a briefing on the progress of the Optionally*  
2 *Manned Fighting Vehicle program of the Army.*

3 *(b) ELEMENTS.—Each briefing under subsection (a)*  
4 *shall include, with respect to the Optionally Manned Fight-*  
5 *ing Vehicle program, the following elements:*

6 *(1) An overview of funding for the program, in-*  
7 *cluding identification of—*

8 *(A) any obligations and expenditures that*  
9 *have been made under the program; and*

10 *(B) any obligations and expenditures that*  
11 *are planned for the program.*

12 *(2) An overview of the program schedule.*

13 *(3) A description of each contract awarded under*  
14 *the program, including a description of the type of*  
15 *contract and the status of the contract.*

16 *(4) An assessment of the status of the program*  
17 *with respect to—*

18 *(A) the development and approval of tech-*  
19 *nical requirements;*

20 *(B) technological maturity;*

21 *(C) testing;*

22 *(D) delivery; and*

23 *(E) program management.*

1 **SEC. 238. GRANTS FOR CIVICS EDUCATION PROGRAMS.**

2       (a) *IN GENERAL.*—*The Secretary of Defense shall*  
3 *carry out a program under which the Secretary makes*  
4 *grants to eligible entities, on a competitive basis, to support*  
5 *the development and evaluation of civics education pro-*  
6 *grams.*

7       (b) *APPLICATION.*—*To be eligible to receive a grant*  
8 *under this section an eligible entity shall submit to the Sec-*  
9 *retary of Defense an application at such time, in such man-*  
10 *ner, and containing such information as the Secretary may*  
11 *require. Applications submitted under this subsection shall*  
12 *be evaluated on the basis of merit pursuant to competitive*  
13 *procedures prescribed by the Secretary of Defense.*

14       (c) *SELECTION CRITERIA.*—*To be selected to receive a*  
15 *grant under this section an eligible entity shall demonstrate*  
16 *each of the following to the satisfaction of the Secretary:*

17           (1) *The civics education program proposed by*  
18 *the entity will include innovative approaches for im-*  
19 *proving civics education.*

20           (2) *The entity will dedicate sufficient resources*  
21 *to the program.*

22           (3) *As part of the program, the entity will con-*  
23 *duct evaluations in accordance with subsection*  
24 *(f)(1)(B).*

25           (4) *The entity will carry out activities to dis-*  
26 *seminate the results of the evaluations described in*

1        *such subsection, including publication of the results*  
2        *in peer-reviewed academic journals.*

3        *(d) GEOGRAPHIC DISTRIBUTION.—To the extent prac-*  
4        *ticable, the Secretary of Defense shall ensure an equitable*  
5        *geographic distribution of grants under this section.*

6        *(e) CONSULTATION.—In awarding grants under this*  
7        *section, the Secretary of Defense shall consult with the Sec-*  
8        *retary of Education.*

9        *(f) USES OF FUNDS.—*

10            *(1) REQUIRED USES OF FUNDS.—An eligible en-*  
11            *tity that receives a grant under this section shall use*  
12            *such grant—*

13                    *(A) to establish a civics education program*  
14                    *or to improve an existing civics education pro-*  
15                    *gram; and*

16                    *(B) to evaluate the effect of the program on*  
17                    *participants, including with respect to—*

18                            *(i) critical thinking and media lit-*  
19                            *eracy;*

20                            *(ii) voting and other forms of political*  
21                            *and civic engagement;*

22                            *(iii) interest in employment, and ca-*  
23                            *reers, in public service;*

24                            *(iv) understanding of United States*  
25                            *law, history, and Government; and*

1                   (v) *the ability of participants to col-*  
2                   *laborate and compromise with others to*  
3                   *solve problems.*

4                   (2) *ALLOWABLE USES OF FUNDS.—An eligible*  
5                   *entity that receives a grant under this section may*  
6                   *use such grant for—*

7                   (A) *the development or modification of cur-*  
8                   *ricula relating to civics education;*

9                   (B) *classroom activities, thesis projects, in-*  
10                  *dividual or team projects, internships, or com-*  
11                  *munity service activities relating to civics;*

12                  (C) *collaboration with government entities,*  
13                  *nonprofit organizations, or consortia of such en-*  
14                  *tities and organizations to provide participants*  
15                  *with civics-related experiences;*

16                  (D) *civics-related faculty development pro-*  
17                  *grams;*

18                  (E) *recruitment of educators who are highly*  
19                  *qualified in civics education to teach civics or to*  
20                  *assist with the development of curricula for*  
21                  *civics education;*

22                  (F) *presentation of seminars, workshops,*  
23                  *and training for the development of skills associ-*  
24                  *ated with civic engagement;*

1           (G) activities that enable participants to  
2 interact with government officials and entities;

3           (H) expansion of civics education programs  
4 and outreach for members of the Armed Forces,  
5 dependents and children of such members and  
6 employees of the Department of Defense; and

7           (I) opportunities for participants to obtain  
8 work experience in fields relating to civics.

9       (g) *DEFINITIONS.—In this section:*

10           (1) The term “civics education program” means  
11 an educational program that provides participants  
12 with—

13           (A) knowledge of law, government, and the  
14 rights of citizens; and

15           (B) skills that enable participants to re-  
16 sponsibly participate in democracy.

17           (2) The term “eligible entity” means a Depart-  
18 ment of Defense domestic dependent elementary or  
19 secondary school (as described in section 2164 of title  
20 10, United States Code).

21 **SEC. 239. TECHNOLOGY AND NATIONAL SECURITY FELLOW-**  
22 **SHIP.**

23       (a) *FELLOWSHIP PROGRAM.—*

24           (1) *IN GENERAL.—Not later than 180 days after*  
25 *the date of the enactment of this Act, the Secretary of*

1       *Defense, acting through the Under Secretary of De-*  
2       *fense for Research and Engineering, may establish a*  
3       *civilian fellowship program designed to place eligible*  
4       *individuals within the Department of Defense to in-*  
5       *crease the number of national security professionals*  
6       *with science, technology, engineering, and mathe-*  
7       *matics credentials employed by the Department.*

8               (2) *DESIGNATION.*—*The fellowship program es-*  
9       *tablished under paragraph (1) shall be known as the*  
10       *“Technology and National Security Fellowship” (in*  
11       *this section referred to as the “fellows program”).*

12              (3) *EMPLOYMENT.*—*Fellows will be assigned to a*  
13       *one year tour of duty within the Department of De-*  
14       *fense.*

15              (4) *PAY AND BENEFITS.*—*An individual assigned*  
16       *to a position under the fellows program shall be com-*  
17       *pensated at the rate of compensation for employees at*  
18       *level GS-10 of the General Schedule, and shall be*  
19       *treated as an employee of the United States during*  
20       *the term of assignment.*

21              (b) *ELIGIBLE INDIVIDUALS.*—*For purposes of this sec-*  
22       *tion, and subject to subsection (f)(3), an eligible individual*  
23       *is any individual who—*

24                      (1) *is a citizen of the United States; and*

25                      (2) *either—*

1           (A) expects to be awarded an undergraduate  
2 or graduate degree that, as determined by the  
3 Secretary, focuses on science, technology, engi-  
4 neering, or mathematics course work not later  
5 than 180 days after the date on which the indi-  
6 vidual submits an application for participation  
7 in the fellows program; or

8           (B) possesses an undergraduate or graduate  
9 degree that, as determined by the Secretary, fo-  
10 cuses on science, technology, engineering, or  
11 mathematics course work that was awarded not  
12 earlier than one year before the date on which  
13 the individual submits an application for par-  
14 ticipation in the fellows program.

15       (c) *APPLICATION REQUIRED.*—Each individual seek-  
16 ing to participate in the fellows program shall submit to  
17 the Secretary an application therefor at such time and in  
18 such manner as the Secretary shall specify.

19       (d) *COORDINATION.*—

20           (1) *IN GENERAL.*—In carrying out this section,  
21 the Secretary may consider coordinating or  
22 partnering with the entities specified in paragraph  
23 (2).

24           (2) *ENTITIES SPECIFIED.*—The entities specified  
25 in this paragraph are the following:

1                   (A) *The National Security Innovation Net-*  
2                   *work.*

3                   (B) *Universities affiliated with Hacking for*  
4                   *Defense.*

5           (f) *MODIFICATIONS TO FELLOWS PROGRAM.—As the*  
6 *Secretary considers necessary to modify the fellows pro-*  
7 *gram, and in coordination with the entities specified in*  
8 *subsection (d)(2), as the Secretary considers appropriate,*  
9 *the Secretary may—*

10                   (1) *determine the length of a fellowship term;*

11                   (2) *establish the rate of compensation for an in-*  
12 *dividual selected to participate in the fellows pro-*  
13 *gram; and*

14                   (3) *change the eligibility requirements for par-*  
15 *ticipation in the fellows program, including who is*  
16 *considered an eligible individual for purposes of the*  
17 *fellows program.*

18           (g) *CONSULTATION.—The Secretary may consult with*  
19 *the heads of the agencies, components, and other elements*  
20 *of the Department of Defense and such institutions of higher*  
21 *education and private entities engaged in work on national*  
22 *security and emerging technologies as the Secretary con-*  
23 *siders appropriate for purposes of the fellows program, in-*  
24 *cluding fellowship assignments.*

1 **SEC. 240. NATIONAL SECURITY COMMISSION ON DEFENSE**  
2 **RESEARCH AT HISTORICALLY BLACK COL-**  
3 **LEGES AND UNIVERSITIES AND OTHER MI-**  
4 **NORITY INSTITUTIONS.**

5 (a) *ESTABLISHMENT.*—

6 (1) *IN GENERAL.*—*There is established in the ex-*  
7 *ecutive branch an independent Commission to review*  
8 *the state of defense research at covered institutions.*

9 (2) *TREATMENT.*—*The Commission shall be con-*  
10 *sidered an independent establishment of the Federal*  
11 *Government as defined by section 104 of title 5,*  
12 *United States Code, and a temporary organization*  
13 *under section 3161 of such title.*

14 (3) *DESIGNATION.*—*The Commission established*  
15 *under paragraph (1) shall be known as the “National*  
16 *Security Commission on Defense Research At Histori-*  
17 *cally Black Colleges and Universities and Other Mi-*  
18 *nority Institutions”.*

19 (4) *MEMBERSHIP.*—

20 (A) *COMPOSITION.*—*The Commission shall*  
21 *be composed of 11 members appointed as follows:*

22 (i) *The Secretary of Defense shall ap-*  
23 *point 2 members.*

24 (ii) *The Secretary of Education shall*  
25 *appoint 1 member.*

1           (iii) *The Chairman of the Committee*  
2           *on Armed Services of the Senate shall ap-*  
3           *point 1 member.*

4           (iv) *The Ranking Member of the Com-*  
5           *mittee on Armed Services of the Senate*  
6           *shall appoint 1 member.*

7           (v) *The Chairman of the Committee on*  
8           *Armed Services of the House of Representa-*  
9           *tives shall appoint 1 member.*

10          (vi) *The Ranking Member of the Com-*  
11          *mittee on Armed Services of the House of*  
12          *Representatives shall appoint 1 member.*

13          (vi) *The Chairman of the Committee*  
14          *on Health, Education, Labor, and Pensions*  
15          *of the Senate shall appoint 1 member.*

16          (viii) *The Ranking Member of the*  
17          *Committee on Health, Education, Labor,*  
18          *and Pensions of the Senate shall appoint 1*  
19          *member.*

20          (ix) *The Chairman of the Committee*  
21          *on Education and Labor of the House of*  
22          *Representatives shall appoint 1 member.*

23          (x) *The Ranking Member of the Com-*  
24          *mittee on Education and Labor of the*

1           *House of Representatives shall appoint 1*  
2           *member.*

3           *(B) DEADLINE FOR APPOINTMENT.—Mem-*  
4           *bers shall be appointed to the Commission under*  
5           *subparagraph (A) not later than 90 days after*  
6           *the date on which the commission is established.*

7           *(C) EFFECT OF LACK OF APPOINTMENT BY*  
8           *APPOINTMENT DATE.—If one or more appoint-*  
9           *ments under subparagraph (A) is not made by*  
10          *the appointment date specified in subparagraph*  
11          *(B), or if a position described in subparagraph*  
12          *(A) is vacant for more than 90 days, the author-*  
13          *ity to make such appointment shall transfer to*  
14          *the Chair of the Commission.*

15          *(5) CHAIR AND VICE CHAIR.—The Commission*  
16          *shall elect a Chair and Vice Chair from among its*  
17          *members.*

18          *(6) TERMS.—Members shall be appointed for the*  
19          *life of the Commission. A vacancy in the Commission*  
20          *shall not affect its powers and shall be filled in the*  
21          *same manner as the original appointment was made.*

22          *(7) STATUS AS FEDERAL EMPLOYEES.—Notwith-*  
23          *standing the requirements of section 2105 of title 5,*  
24          *United States Code, including the required super-*  
25          *vision under subsection (a)(3) of such section, the*

1 *members of the Commission shall be deemed to be*  
2 *Federal employees.*

3 *(b) DUTIES.—*

4 *(1) IN GENERAL.—The Commission shall carry*  
5 *out the review described in paragraph (2). In car-*  
6 *rying out such review, the Commission shall consider*  
7 *the methods and means necessary to advance research*  
8 *capacity at covered institutions to comprehensively*  
9 *address the national security and defense needs of the*  
10 *United States.*

11 *(2) SCOPE OF THE REVIEW.—In conducting the*  
12 *review under paragraph (1), the Commission shall*  
13 *consider the following:*

14 *(A) The competitiveness of covered institu-*  
15 *tions in developing, pursuing, capturing, and*  
16 *executing defense research with the Department*  
17 *of Defense through contracts and grants.*

18 *(B) Means and methods for advancing the*  
19 *capacity of covered institutions to conduct re-*  
20 *search related to national security and defense.*

21 *(C) The advancements and investments nec-*  
22 *essary to elevate covered institutions to R2 status*  
23 *on the Carnegie Classification of Institutions of*  
24 *Higher Education, covered institutions to R1*  
25 *status on the Carnegie Classification of Institu-*

1            *tions of Higher Education, one covered institu-*  
2            *tion or a consortium of multiple covered institu-*  
3            *tions to the capability of a University Affiliated*  
4            *Research Center, and identify the candidate in-*  
5            *stitutions for each category.*

6            *(D) The facilities and infrastructure for de-*  
7            *fense-related research at covered institutions as*  
8            *compared to the facilities and infrastructure at*  
9            *universities classified as R1 status on the Car-*  
10           *negie Classification of Institutions of Higher*  
11           *Education.*

12           *(E) Incentives to attract, recruit, and re-*  
13           *tain leading research faculty to covered institu-*  
14           *tions.*

15           *(F) The legal and organizational structure*  
16           *of the contracting entity of covered institutions*  
17           *as compared to the legal and organizational*  
18           *structure of the contracting entity of covered in-*  
19           *stitutions at universities classified as R1 status*  
20           *on the Carnegie Classification of Institutions of*  
21           *Higher Education.*

22           *(G) The ability of covered institutions to de-*  
23           *velop, protect, and commercialize intellectual*  
24           *property created through defense-related research.*

1           (H) *The amount of defense research funding*  
2           *awarded to all colleges and universities through*  
3           *contracts and grants for the fiscal years of 2010*  
4           *through 2019, including—*

5                   (i) *the legal mechanism under which*  
6                   *the organization was formed;*

7                   (ii) *the total value of contracts and*  
8                   *grants awarded to the organization during*  
9                   *fiscal years 2010 to 2019;*

10                  (iii) *the overhead rate of the organiza-*  
11                  *tion for fiscal year 2019;*

12                  (iv) *the Carnegie Classification of In-*  
13                  *stitutions of Higher Education of the associ-*  
14                  *ated university or college;*

15                  (v) *if the associated university or col-*  
16                  *lege qualifies as a historically Black college*  
17                  *or university or a minority institution.*

18           (I) *Areas for improvement in the programs*  
19           *executed under section 2362 of title 10, United*  
20           *States Code, the existing authorization to en-*  
21           *hance defense-related research and education at*  
22           *covered institutions.*

23           (J) *Previous executive or legislative actions*  
24           *by the Federal Government to address the imbal-*  
25           *ance in federal research funding, such as the Es-*

1           *established Program to Stimulate Competitive Re-*  
2           *search (commonly known as “EPSCoR”).*

3           *(K) Any other matters the Commission*  
4           *deems relevant to the advancing the defense re-*  
5           *search capacity of covered institutions.*

6           *(c) REPORTS.—*

7           *(1) INITIAL REPORT.—Not later than 180 days*  
8           *after the date of the enactment of this Act, the Com-*  
9           *mission shall submit to the President and Congress*  
10           *an initial report on the findings of the Commission*  
11           *and such recommendations that the Commission may*  
12           *have for action by the executive branch and Congress*  
13           *related to the covered institutions participating in*  
14           *Department of Defense research and actions necessary*  
15           *to expand their research capacity.*

16           *(2) FINAL REPORT.—Prior to the date on which*  
17           *the commission terminates under subsection (d), the*  
18           *Commission shall submit to the President and Con-*  
19           *gress a comprehensive report on the results of the re-*  
20           *view required under subsection (b).*

21           *(3) FORM OF REPORTS.—Reports submitted*  
22           *under this subsection shall be made publically avail-*  
23           *able.*

24           *(d) TERMINATION.—The Commission shall terminate*  
25           *on December 31, 2021.*

1       (e) *COVERED INSTITUTION DEFINED.*—*In this section,*  
2 *the term “covered institution” means—*

3           (1) *a part B institution (as that term is defined*  
4 *in section 322(2) of the Higher Education Act of 1965*  
5 *(20 U.S.C. 1061(2)); or*

6           (2) *any other institution of higher education (as*  
7 *that term is defined in section 101 of such Act (20*  
8 *U.S.C. 1001)) at which not less than 50 percent of the*  
9 *total student enrollment consists of students from eth-*  
10 *nic groups that are underrepresented in the fields of*  
11 *science and engineering.*

12       ***TITLE III—OPERATION AND***  
13           ***MAINTENANCE***  
14           ***Subtitle A—Authorization of***  
15           ***Appropriations***

16 ***SEC. 301. AUTHORIZATION OF APPROPRIATIONS.***

17       *Funds are here by authorized to be appropriated for*  
18 *fiscal year 2020 for the use of the Armed Forces and other*  
19 *activities and agencies of the Department of Defense for ex-*  
20 *penses, not otherwise provided for, for operation and main-*  
21 *tenance, as specified in the funding table in section 4301.*

1                   ***Subtitle B—Energy and***  
2                   ***Environment***

3   ***SEC. 311. TIMELINE FOR CLEARINGHOUSE REVIEW OF AP-***  
4                   ***PLICATIONS FOR ENERGY PROJECTS THAT***  
5                   ***MAY HAVE AN ADVERSE IMPACT ON MILITARY***  
6                   ***OPERATIONS AND READINESS.***

7           *Section 183a(c)(1) of title 10, United States Code, is*  
8   *amended by striking “60 days” and inserting “90 days”.*

9   ***SEC. 312. AUTHORITY TO MAKE FINAL FINDING ON DES-***  
10                  ***IGNATION OF GEOGRAPHIC AREAS OF CON-***  
11                  ***CERN FOR PURPOSES OF ENERGY PROJECTS***  
12                  ***WITH ADVERSE IMPACTS ON MILITARY OPER-***  
13                  ***ATIONS AND READINESS.***

14           *Section 183a(d)(2)(E) of title 10, United States Code,*  
15   *is amended—*

16                   (1) *by striking “or a Principal” and inserting*  
17                   *“a”; and*

18                   (2) *by inserting “, an Assistant Secretary of De-*  
19                   *fense, or a Deputy Assistant Secretary of Defense”*  
20                   *after “Deputy Under Secretary of Defense”.*

1 **SEC. 313. AUTHORITY TO ACCEPT CONTRIBUTIONS OF**  
2 **FUNDS FROM APPLICANTS FOR ENERGY**  
3 **PROJECTS FOR MITIGATION OF IMPACTS ON**  
4 **MILITARY OPERATIONS AND READINESS.**

5 *Section 183a(f) of title 10, United States Code, is*  
6 *amended by striking “for a project filed with the Secretary*  
7 *of Transportation pursuant to section 44718 of title 49”*  
8 *and inserting “for an energy project”.*

9 **SEC. 314. DEPARTMENT OF DEFENSE IMPROVEMENT OF**  
10 **PREVIOUSLY CONVEYED UTILITY SYSTEMS**  
11 **SERVING MILITARY INSTALLATIONS.**

12 *Section 2688 of title 10, United States Code, is amend-*  
13 *ed—*

14 *(1) by redesignating subsection (k) as subsection*  
15 *(l); and*

16 *(2) by inserting after subsection (j) the following*  
17 *new subsection (k):*

18 *“(k) IMPROVEMENT OF CONVEYED UTILITY SYS-*  
19 *TEMS.—In the case of a utility system that is conveyed*  
20 *under this section and that only provides utility services*  
21 *to a military installation, the Secretary concerned may use*  
22 *amounts authorized to be appropriated for military con-*  
23 *struction to improve the reliability, resilience, efficiency,*  
24 *physical security, or cybersecurity of the utility system.”.*

1 **SEC. 315. FIVE-YEAR AUTHORITY FOR NATIONAL GUARD EN-**  
2 **VIRONMENTAL RESTORATION PROJECTS FOR**  
3 **ENVIRONMENTAL RESPONSES.**

4 (a) *IN GENERAL.*—Section 2707 of title 10, United  
5 States Code, is amended by adding at the end the following  
6 new subsection:

7 “(e) *TEMPORARY AUTHORITY FOR NATIONAL GUARD*  
8 *PROJECTS.*—Notwithstanding subsection (a) of this section  
9 and section 2701(c)(1) of this title, during the five-year pe-  
10 riod beginning on the date of the enactment of this sub-  
11 section, the Secretary concerned may carry out an environ-  
12 mental restoration project if the Secretary determines that  
13 the project is necessary to carry out a response to  
14 perfluorooctanoic acid or perfluorooctane sulfonate con-  
15 tamination under this chapter or CERCLA.”.

16 (b) *SAVINGS CLAUSE.*—Nothing in this section, or the  
17 amendment made by this section, shall affect any require-  
18 ment or authority under the Comprehensive Environmental  
19 Response, Compensation, and Liability Act of 1980 (42  
20 U.S.C. 9601 et seq.).

21 **SEC. 316. SALE OF ELECTRICITY FROM ALTERNATE ENERGY**  
22 **AND COGENERATION PRODUCTION FACILI-**  
23 **TIES.**

24 Section 2916(b)(3) of title 10, United States Code, is  
25 amended—

1           (1) *in subparagraph (A), by striking “and” at*  
2     *the end; and*

3           (2) *in subparagraph (B)—*

4                 (A) *by striking “shall be available” and all*  
5     *that follows and inserting “shall be provided di-*  
6     *rectly to the commander of the military installa-*  
7     *tion in which the geothermal energy resource is*  
8     *located to be used for—”; and*

9                 (B) *by adding at the end the following new*  
10    *clauses:*

11                     “(i) *military construction projects described*  
12    *in paragraph (2) that benefit the military in-*  
13    *stallation where the geothermal energy resource*  
14    *is located; or*

15                     “(ii) *energy or water security projects*  
16    *that—*

17                             “(I) *benefit the military installation*  
18    *where the geothermal energy resource is lo-*  
19    *cated;*

20                             “(II) *the commander of the military*  
21    *installation determines are necessary; and*

22                             “(III) *are directly coordinated with*  
23    *local area energy or groundwater governing*  
24    *authorities.”.*

1 **SEC. 317. TRANSFER AUTHORITY FOR FUNDING OF STUDY**  
2 **AND ASSESSMENT ON HEALTH IMPLICATIONS**  
3 **OF PER- AND POLYFLUOROALKYL SUB-**  
4 **STANCES CONTAMINATION IN DRINKING**  
5 **WATER BY AGENCY FOR TOXIC SUBSTANCES**  
6 **AND DISEASE REGISTRY.**

7 *Section 316(a)(2)(B)(ii) of the National Defense Au-*  
8 *thorization Act for Fiscal Year 2018 (Public Law 115–91;*  
9 *131 Stat. 1350), as amended by section 315(a) of the John*  
10 *S. McCain National Defense Authorization Act for Fiscal*  
11 *Year 2019 (Public Law 115–232), is amended by striking*  
12 *“2019 and 2020” and inserting “2019, 2020, and 2021”.*

13 **SEC. 318. REPLACEMENT OF FLUORINATED AQUEOUS FILM-**  
14 **FORMING FOAM WITH FLUORINE-FREE FIRE-**  
15 **FIGHTING AGENT.**

16 *(a) USE OF FLUORINE-FREE FOAM AT MILITARY IN-*  
17 *STALLATIONS.—Not later than January 31, 2025, the Sec-*  
18 *retary of the Navy shall publish a military specification*  
19 *for a fluorine-free fire-fighting agent for use at all military*  
20 *installations to ensure such agent is available for use by*  
21 *not later than 2027.*

22 *(b) PROHIBITION ON USE.—Fluorinated aqueous film-*  
23 *forming foam may not be used at any military installation*  
24 *on or after September 30, 2029, or before such date, if pos-*  
25 *sible.*

26 *(c) WAIVER.—*

1           (1) *IN GENERAL.*—Subject to paragraph (2), the  
2           Secretary of Defense may grant a waiver to the prohi-  
3           bition under subsection (b) with respect to the use of  
4           fluorinated aqueous film-forming foam at a specific  
5           military installation if the Secretary submits to the  
6           congressional defense committees, by not later than 30  
7           days prior to issuing the waiver—

8                     (A) notice of the waiver; and

9                     (B) certification, in writing, that the waiv-  
10           er is necessary for the protection of life and safe-  
11           ty.

12           (2) *LIMITATION.*—A waiver under this subsection  
13           shall apply for a period that does not exceed three  
14           years. The Secretary may extend any such waiver  
15           once for an additional period that does not exceed  
16           three years.

17 **SEC. 319. PROHIBITION OF UNCONTROLLED RELEASE OF**  
18                     **FLUORINATED AQUEOUS FILM-FORMING**  
19                     **FOAM AT MILITARY INSTALLATIONS.**

20           (a) *PROHIBITION.*—Except as provided by subsection  
21           (b), the Secretary of Defense shall prohibit the uncontrolled  
22           release of fluorinated aqueous film-forming foam (herein-  
23           after in this section referred to as “AFFF”) at military in-  
24           stallations.

1       (b) *EXCEPTIONS.*—Notwithstanding subsection (a),  
2 *fluorinated AFFF may be released at military installations*  
3 *as follows:*

4           (1) *AFFF may be released for purposes of an*  
5 *emergency response.*

6           (2) *A non-emergency release of AFFF may be*  
7 *made for the purposes of testing of equipment or*  
8 *training of personnel, if complete containment, cap-*  
9 *ture, and proper disposal mechanisms are in place to*  
10 *ensure no AFFF is released into the environment.*

11 **SEC. 320. PROHIBITION ON USE OF FLUORINATED AQUE-**  
12 **OUS FILM FORMING FOAM FOR TRAINING EX-**  
13 **ERCISES.**

14       *The Secretary of Defense shall prohibit the use of*  
15 *fluorinated aqueous film forming foam for training exer-*  
16 *cises at military installations.*

17 **SEC. 321. REAL-TIME NOISE-MONITORING STUDY AT NAVY**  
18 **AND AIR FORCE INSTALLATIONS WHERE TAC-**  
19 **TICAL FIGHTER AIRCRAFT OPERATE.**

20       (a) *REAL-TIME MONITORING.*—*The Secretary of the*  
21 *Navy and the Secretary of the Air Force shall each conduct*  
22 *a real-time noise-monitoring study at no fewer than three*  
23 *Navy installations and three Air Force installations. In*  
24 *conducting such study, the Secretaries shall—*

1           (1) *select installations where tactical fighter air-*  
2           *craft operate and noise contours have been developed*  
3           *through noise modeling to validate the noise contours*  
4           *developed through analysis and modeling at those in-*  
5           *stallations; and*

6           (2) *ensure that such monitoring is conducted*  
7           *during times of high, medium, and low activity.*

8           (b) *REPORT REQUIRED.*—*Not later than December 1,*  
9           *2020, the Secretary of the Navy and the Secretary of the*  
10          *Air Force shall jointly submit to the Committees on Armed*  
11          *Services of the Senate and House of Representatives a re-*  
12          *port on the real-time noise monitoring required under sub-*  
13          *section (a). Such report shall include—*

14                 (1) *the results of such monitoring;*

15                 (2) *a comparison of such monitoring and the*  
16                 *noise contours previously developed with the analysis*  
17                 *and modeling methods previously used;*

18                 (3) *an overview of any changes to the analysis*  
19                 *and modeling process that have been made or are*  
20                 *being considered as a result of the findings of such*  
21                 *monitoring; and*

22                 (4) *any other matters that the Secretaries deter-*  
23                 *mine appropriate.*

1 **SEC. 322. DEVELOPMENT OF CLIMATE VULNERABILITY AND**  
2 **RISK ASSESSMENT TOOL.**

3 (a) *IN GENERAL.*—Not later than 180 days after the  
4 date of the enactment of this Act, the Secretary of Defense  
5 shall develop a climate vulnerability and risk assessment  
6 tool to assist the military departments in measuring how  
7 the risks associated with climate change impact networks,  
8 systems, installations, facilities, and other assets, as well  
9 as the operational plans and capabilities of the Department  
10 of Defense.

11 (b) *CONSULTATION.*—In developing the tool under sub-  
12 section (a), the Secretary shall consult with the Adminis-  
13 trator of the Environmental Protection Agency, the Sec-  
14 retary of Energy, the Secretary of the Interior, the Adminis-  
15 trator of the National Oceanic and Atmospheric Adminis-  
16 tration, the Administrator of the Federal Emergency Man-  
17 agement Agency, the Commander of the Army Corps of En-  
18 gineers, the Administrator of the National Aeronautics and  
19 Space Administration, a federally funded research and de-  
20 velopment center, and the heads of such other relevant Fed-  
21 eral agencies as the Secretary of Defense determines appro-  
22 priate.

23 (c) *PREVAILING SCIENTIFIC CONSENSUS.*—Before  
24 completing development of the tool under subsection (a), the  
25 Secretary shall obtain from a federally funded research and  
26 development center with which the Secretary has consulted

1 *under subsection (b) a certification in writing that the tool*  
2 *contains a methodology that adequately incorporates the*  
3 *prevailing scientific consensus on climate change.*

4 *(d) REPORT.—*

5 *(1) IN GENERAL.—Not later than 180 days after*  
6 *the date of the enactment of this Act, the Secretary*  
7 *shall submit to the congressional defense committees a*  
8 *report describing the tool developed under subsection*  
9 *(a).*

10 *(2) CLASSIFIED ANNEX.—The report under para-*  
11 *graph (1) shall be submitted in unclassified form but*  
12 *may contain a classified annex if necessary.*

13 *(3) PUBLICATION.—Upon submittal of the report*  
14 *under paragraph (1), the Secretary shall publish the*  
15 *unclassified portion of the report on an internet*  
16 *website of the Department that is available to the*  
17 *public.*

18 *(e) UPDATES TO TOOL.—*

19 *(1) IN GENERAL.—After submittal of the report*  
20 *under subsection (d), the Secretary of Defense shall*  
21 *update the climate vulnerability and risk assessment*  
22 *tool developed under subsection (a) as the Secretary*  
23 *considers necessary and appropriate, in consultation*  
24 *with the individuals and entities described in sub-*

1 *section (b) and consistent with the prevailing sci-*  
2 *entific consensus as required under subsection (c).*

3 (2) *REPORT AND PUBLICATION.*—Upon com-  
4 *pleting an update to the tool under paragraph (1),*  
5 *the Secretary shall—*

6 (A) *submit to the congressional defense com-*  
7 *mittees a report describing such update; and*

8 (B) *publish the unclassified version of such*  
9 *report on an internet website of the Department*  
10 *that is available to the public.*

11 **SEC. 323. PROVISION OF UNCONTAMINATED WATER FOR**  
12 **AGRICULTURAL USE ON LAND CONTAMI-**  
13 **NATED BY PFOS AND PFOA USED ON MILI-**  
14 **TARY INSTALLATIONS.**

15 (a) *FINDINGS.*—Congress makes the following findings:

16 (1) *Perfluorooctanesulfonic acid (in this section*  
17 *referred to as “PFOS”) and perfluorooctanoic acid*  
18 *(in this section referred to as “PFOA”) are part of*  
19 *a class of man-made chemicals that have been used in*  
20 *a variety of industrial and consumer products to*  
21 *make the products resist heat, stains, water, and*  
22 *grease. Because PFOS and PFOA extinguish petro-*  
23 *leum fires quickly, the Department of Defense and*  
24 *commercial airports began using aqueous film form-*  
25 *ing foam containing PFOS and PFOA in the 1970s.*

1           (2) *PFOS and PFOA can accumulate and stay*  
2 *in the body for long periods of time. Exposure to*  
3 *PFOS and PFOA may cause health problems, includ-*  
4 *ing issues with the reproductive system, liver and kid-*  
5 *ney damage, developmental issues in children, and*  
6 *negatively impacted immune system, and cancer.*

7           (3) *A common method of human exposure to*  
8 *PFOS and PFOA is by consuming contaminated*  
9 *drinking water.*

10          (4) *The Environmental Protection Agency issued*  
11 *lifetime health advisories under the Safe Drinking*  
12 *Water Act for individual or combined PFOS and*  
13 *PFOA concentrations at 70 parts per trillion in*  
14 *2016, but has not yet issued any guidance or regula-*  
15 *tion for groundwater or agricultural water.*

16          (5) *The Department of Defense has provided*  
17 *mitigations in many communities where drinking*  
18 *water has tested at or above the lifetime health advi-*  
19 *sory level, including bottled water and drinking water*  
20 *filtration systems. Due to the lack of regulatory guid-*  
21 *ance, these mitigations have not been mirrored in ag-*  
22 *ricultural water systems.*

23          (6) *As a result, farmers located adjacent to mili-*  
24 *tary installations with PFOS and PFOA contamina-*  
25 *tion that has migrated off-installation are potentially*

1       *impacted, and in at least one case, such contamina-*  
2       *tion has had a serious impact on the livelihood of a*  
3       *dairy farmer.*

4       **(b) AUTHORITY TO PROVIDE UNCONTAMINATED**  
5       **WATER FOR AGRICULTURAL PURPOSES.—**

6               **(1) IN GENERAL.—***If an area has been identified*  
7       *under paragraph (2), and a military installation has*  
8       *been determined to be the source of that contamina-*  
9       *tion, the Secretary of Defense or the Secretary con-*  
10       *cerned may provide, for the purpose of producing ag-*  
11       *ricultural products destined for human consump-*  
12       *tion—*

13               **(A)** *water sources uncontaminated with*  
14       *perfluoroalkyl and polyfluoroalkyl substances, in-*  
15       *cluding PFOA and PFOS, or*

16               **(B)** *treatment of contaminated waters.*

17               **(2) IDENTIFICATION OF AREAS.—***An area identi-*  
18       *fied under this paragraph is an area for which the*  
19       *level of PFOA or PFOS contamination—*

20               **(A)** *is above the lifetime health advisory for*  
21       *contamination for such compounds as issued by*  
22       *the Environmental Protection Agency and print-*  
23       *ed in the Federal Register on May 25, 2016;*

24               **(B)** *is at or above a regulatory standard set*  
25       *by the Food and Drug Administration for PFOA*

1           *and PFOS in raw agricultural commodities and*  
2           *milk; or*

3           *(C) is at or above a duly promulgated, non-*  
4           *discriminatory standard promulgated by a State*  
5           *regulatory entity for PFOA and PFOS in raw*  
6           *agricultural commodities and milk.*

7           (3) *SOURCE OF FUNDS.—Amounts used to carry*  
8           *out this section shall be derived—*

9           *(A) in the case of amounts made available*  
10           *by the Secretary concerned, from amounts au-*  
11           *thorized to be appropriated for Operation and*  
12           *Maintenance for the military department con-*  
13           *cerned; or*

14           *(B) in the case of amounts made available*  
15           *by the Secretary of Defense, from amounts au-*  
16           *thorized to be appropriated for Operation and*  
17           *Maintenance, Defense-wide.*

18           (c) *SENSE OF CONGRESS REGARDING LAND ACQUI-*  
19           *SION.—It is the sense of Congress that the Secretary con-*  
20           *cerned should explore authorities under which the Secretary*  
21           *could acquire land the land adjacent to military installa-*  
22           *tions where the owners of the land have experienced impacts*  
23           *to their livelihood due to PFOS and PFOA contamination*  
24           *that has been verified to have been caused by that installa-*

1 *tion, including the authorities under sections 2663, 2864a,*  
2 *and 2869 of title 10, United States Code.*

3 ***Subtitle C—Logistics and***  
4 ***Sustainment***

5 ***SEC. 331. MATERIAL READINESS METRICS AND OBJEC-***  
6 ***TIVES.***

7 *(a) MATERIAL READINESS METRICS AND OBJEC-*  
8 *TIVES.—*

9 *(1) IN GENERAL.—Chapter 2 of title 10, United*  
10 *States Code, is amended by inserting after section 117*  
11 *the following new section:*

12 ***“§ 118. Material readiness metrics and objectives***

13 *“(a) GUIDANCE.—(1) The Secretary of Defense shall*  
14 *issue and maintain guidance requiring the implementation*  
15 *and use of material readiness metrics to enable assessment*  
16 *of the readiness of armed forces to carry out the national*  
17 *defense strategy required by section 113 of this title.*

18 *“(2) Guidance issued pursuant to this section shall en-*  
19 *sure that such material readiness metrics—*

20 *“(A) are based on standardized and consistent*  
21 *criteria; and*

22 *“(B) are applied, used, recorded, and reported in*  
23 *same manner by all components of the Department of*  
24 *Defense.*

1       “(b) *METRICS.*—*At a minimum, the material readi-*  
2 *ness metrics required by subsection (a) shall address the*  
3 *material availability, operational availability, and mate-*  
4 *rial reliability of each major weapon system by designated*  
5 *mission design series, variant, or class.*

6       “(c) *MATERIAL READINESS OBJECTIVES.*—(1) *The*  
7 *Secretary of Defense shall establish, and annually review*  
8 *and revise, an objective value for each metric required by*  
9 *subsection (b) as a necessary component to support the re-*  
10 *view and revision of the national defense strategy required*  
11 *by section 113 of this title.*

12       “(2) *To the maximum extent practicable, the Secretary*  
13 *shall ensure that objective values established under this sub-*  
14 *section are unclassified.*

15       “(d) *DEFINITIONS.*—*In this section:*

16               “(1) *The term ‘major weapons system’ has the*  
17 *meaning given the term ‘major system’ under section*  
18 *2302(5) of this title, except that such term does not*  
19 *include an acquisition program for a defense business*  
20 *system (as defined in section 2222(i)(1) of this title).*

21               “(2) *The term ‘material availability’ means the*  
22 *measure of the percentage of the total inventory of a*  
23 *system that is operationally capable of performing an*  
24 *assigned mission.*

1           “(3) *The term ‘material reliability’ means the*  
2           *probability that a covered asset will perform without*  
3           *failure over a specified interval.*

4           “(4) *The term ‘operational availability’ means*  
5           *the measure of the percentage of time a covered asset*  
6           *is operationally capable.”.*

7           (2) *CLERICAL AMENDMENT.—The table of sec-*  
8           *tions at the beginning of such chapter is amended by*  
9           *inserting after the item relating to section 117 the fol-*  
10          *lowing new item:*

*“118. Material readiness metrics and objectives.”.*

11          (b)           *CONFORMING            AMENDMENT.—Section*  
12          *2337(b)(2)(A) of title 10, United States Code, is amended—*

13                 (1) *by inserting “to meet the material readiness*  
14                 *objectives” before “for the weapon system”; and*

15                 (2) *by inserting “under section 118 of this title”*  
16                 *after “weapon system”.*

17          (c) *DEADLINES.—*

18                 (1) *DEADLINE FOR GUIDANCE.—The guidance*  
19                 *required by section 118(a) of title 10, United States*  
20                 *Code, as added by subsection (a), shall be issued by*  
21                 *not later than 180 days after the date of the enact-*  
22                 *ment of this Act.*

23                 (2) *DEADLINE FOR ESTABLISHMENT OF MATE-*  
24                 *RIAL READINESS OBJECTIVES.—The material readi-*  
25                 *ness objectives required by section 118(c)(1) of title*

1       10, *United States Code*, as added by subsection (a),  
2       shall be established by not later than one year after  
3       the date of the enactment of this Act.

4       **SEC. 332. CLARIFICATION OF AUTHORITY REGARDING USE**  
5                   **OF WORKING CAPITAL FUNDS FOR UNSPEC-**  
6                   **IFIED MINOR MILITARY CONSTRUCTION**  
7                   **PROJECTS RELATED TO REVITALIZATION**  
8                   **AND RECAPITALIZATION OF DEFENSE INDUS-**  
9                   **TRIAL BASE FACILITIES.**

10       Section 2208(u) of title 10, *United States Code*, is  
11       amended—

12               (1) in paragraph (1), by striking “carry out”  
13       and inserting “fund”;

14               (2) in paragraph (2)—

15                   (A) by striking “Section 2805” and insert-  
16       ing “(A) Except as provided in subparagraph  
17       (B), section 2805”;

18                   (B) by striking “carried out with” and in-  
19       serting “funded using”; and

20                   (C) by adding at the end the following new  
21       subparagraph:

22       “(B) For purposes of applying subparagraph (A), the  
23       dollar limitation specified in subsection (a)(2) of section  
24       2805 of this title, subject to adjustment as provided in sub-

1 *section (f) of such section, shall apply rather than the dollar*  
2 *limitation specified in subsection (c) of such section.”; and*

3 *(3) in paragraph (4), by striking “carry out”*  
4 *and inserting “fund”.*

5 **SEC. 333. F-35 JOINT STRIKE FIGHTER SUSTAINMENT.**

6 *(a) LIMITATION ON USE OF FUNDS.—Of the amounts*  
7 *authorized to be appropriated or otherwise made available*  
8 *in this Act for the Office of the Under Secretary of Defense*  
9 *for Acquisition and Sustainment for fiscal year 2020, not*  
10 *more than 75 percent may be obligated or expended until*  
11 *the date on which the Under Secretary submits the report*  
12 *required by subsection (b).*

13 *(b) REPORT REQUIRED.—The Under Secretary of De-*  
14 *fense for Acquisition and Sustainment shall submit to the*  
15 *Committees on Armed Services of the Senate and House of*  
16 *Representatives a report on steps being taken to improve*  
17 *the availability and accountability of F-35 parts within*  
18 *the supply chain. At a minimum, the report shall include*  
19 *a detailed plan for each of the following elements:*

20 *(1) How the accountable property system of*  
21 *record will be updated with information from the*  
22 *prime contractors supplying such parts on required*  
23 *cost and related data with respect to the parts and*  
24 *how the F-35 Program Office will ensure such con-*  
25 *tractors are adhering to contractual requirements for*

1 *the management, reporting, visibility, and account-*  
2 *ability of all such parts supplied by the prime con-*  
3 *tractors.*

4 (2) *How the accountability property system of*  
5 *record will have interfaces that allow the F-35 Pro-*  
6 *gram Office and other authorized entities to have*  
7 *proper accountability of assets in accordance with ap-*  
8 *plicable Department of Defense Instructions, Depart-*  
9 *ment of Defense Manuals, and other applicable regu-*  
10 *lations.*

11 (3) *How the F-35 Program Office and the Sec-*  
12 *retary of each of the military departments will ensure*  
13 *business rules for the prioritization of F-35 parts*  
14 *across all program participants is sufficient, effective,*  
15 *and responsive.*

16 (4) *Steps being taken to ensure parts within the*  
17 *base, afloat, and deployment spares packages are com-*  
18 *patible for deploying F-35 aircraft and account for*  
19 *updated parts demand.*

20 **SEC. 334. REPORT ON STRATEGIC POLICY FOR**  
21 **PREPOSITIONED MATERIEL AND EQUIPMENT.**

22 (a) *REPORT REQUIRED.*—*Not later than March 1,*  
23 *2020, the Assistant Secretary of Defense for Sustainment,*  
24 *in coordination with the Joint Staff, shall submit to the*  
25 *Committees on Armed Services of the Senate and House of*

1 *Representatives a report on the implementation plan for*  
2 *prepositioned materiel and equipment required by section*  
3 *321(b) of the National Defense Authorization Act for Fiscal*  
4 *Year 2014 (Public Law 113–66; 127 Stat. 730; 10 U.S.C.*  
5 *2229 note). Such report shall include each of the following:*

6           (1) *A comprehensive list of the prepositioned ma-*  
7 *teriel and equipment programs of the Department of*  
8 *Defense.*

9           (2) *A detailed description of how the plan will*  
10 *be implemented.*

11           (3) *A description of the resources required to im-*  
12 *plement the plan, including the amount of funds and*  
13 *personnel.*

14           (4) *A description of how the plan will be re-*  
15 *viewed and assessed to monitor progress.*

16           (5) *Guidance on applying a consistent definition*  
17 *of prepositioning across the Department, including*  
18 *the military departments, the combatant commands,*  
19 *and the Defense Agencies.*

20           (6) *A detailed description of how the Secretary*  
21 *will implement a joint oversight approach of the*  
22 *prepositioning programs of the military departments.*

23           (b) *LIMITATION ON USE OF FUNDS.—Of the amounts*  
24 *authorized to be appropriated or otherwise made available*  
25 *in this Act for the Office of the Assistant Secretary of De-*

1 *fense for Sustainment for fiscal year 2020, not more than*  
2 *75 percent may be obligated or expended until the date on*  
3 *which the Assistant Secretary submits the report required*  
4 *by subsection (a).*

5 **SEC. 335. LIMITATION ON USE OF FUNDS FOR IMPLEMENTA-**  
6 **TION OF ELEMENTS OF MASTER PLAN FOR**  
7 **REDEVELOPMENT OF FORMER SHIP REPAIR**  
8 **FACILITY IN GUAM.**

9 (a) *LIMITATION.*—*Except as provided in subsection*  
10 *(b), none of the funds authorized to be appropriated by this*  
11 *Act or otherwise made available for the Navy for fiscal year*  
12 *2020 may be obligated or expended for any construction,*  
13 *alteration, repair, or development of the real property con-*  
14 *sisting of the Former Ship Repair Facility in Guam.*

15 (b) *EXCEPTION.*—*The limitation under subsection (a)*  
16 *does not apply to any project that directly supports depot-*  
17 *level ship maintenance capabilities, including the mooring*  
18 *of a floating dry dock.*

19 (c) *FORMER SHIP REPAIR FACILITY IN GUAM.*—*In*  
20 *this section, the term “Former Ship Repair Facility in*  
21 *Guam” means the property identified by that name under*  
22 *the base realignment and closure authority carried out*  
23 *under the Defense Base Closure and Realignment Act of*  
24 *1990 (part A of title XXIX of Public Law 101–510; 10*  
25 *U.S.C. 2687 note).*

## **Subtitle D—Reports**

### **2 SEC. 341. READINESS REPORTING.**

3       (a) *READINESS REPORTING SYSTEM.*—Section 117 of  
4 *title 10, United State Code, is amended—*

5             (1) *by striking subsections (d) through (g); and*

6             (2) *by redesignating subsection (h) as subsection*

7             *(d).*

8       (b) *QUARTERLY REPORTS.*—Section 482 of title 10,  
9 *United States Code, is amended—*

10            (1) *in the section heading, by striking “Quar-*  
11 *terly reports: personnel and unit readi-*  
12 *ness” and inserting “Readiness reports”;*

13            (2) *in subsection (a)—*

14                (A) *In the subsection heading, by striking “*  
15 *QUARTERLY REPORTS REQUIRED” and inserting*  
16 *“REPORTS AND BRIEFINGS”;*

17                (B) *In the first sentence—*

18                    (i) *by striking “Not later” and insert-*  
19 *ing “(1) Not later”; and*

20                    (ii) *by striking “each calendar-year*  
21 *quarter” and inserting “the second and*  
22 *fourth quarter of each calendar year”;*

23                (C) *by striking the second and third sen-*  
24 *tences and inserting “The Secretary of Defense*  
25 *shall submit each such report in writing and*

1           shall also submit a copy of each such report to  
2           the Chairman of the Joint Chiefs of Staff.”; and

3                   (D) by adding at the end the following new  
4           paragraphs:

5           “(2) Not later than 30 days after the end of the first  
6           and third quarter of each calendar year, the Secretary of  
7           Defense shall provide to Congress a briefing regarding the  
8           military readiness of the active and reserve components.

9           “(3) Each report under this subsection shall contain  
10          the elements required by subsection (b) for the quarter cov-  
11          ered by the report, and each briefing shall address any  
12          changes to the elements described in subsection (b) since the  
13          submittal of the most recently submitted report.”;

14                   (3) by striking subsection (b) and inserting the  
15          following:

16           “(b) *REQUIRED ELEMENTS.*—The elements described  
17          in this subsection are each of the following:

18                   “(1) A description of each readiness problem or  
19                  deficiency that affects the ground, sea, air, space,  
20                  cyber, or special operations forces, and any other area  
21                  determined appropriate by the Secretary of Defense.

22                   “(2) The key contributing factors, indicators,  
23                  and other relevant information related to each identi-  
24                  fied problem or deficiency.

1           “(3) *The short-term mitigation strategy the De-*  
2           *partment will employ to address each readiness prob-*  
3           *lem or deficiency until a resolution is in place, as*  
4           *well as the timeline, cost, and any legislative remedies*  
5           *required to support the resolution.*

6           “(4) *A summary of combat readiness ratings for*  
7           *the key force elements assessed, including specific in-*  
8           *formation on personnel, supply, equipment, and*  
9           *training problems or deficiencies that affect the com-*  
10          *bat readiness ratings for each force element.*

11          “(5) *A summary of each upgrade or downgrade*  
12          *of the combat readiness of a unit that was issued by*  
13          *the commander of the unit, together with the rationale*  
14          *of the commander for the issuance of such upgrade or*  
15          *downgrade.*

16          “(6) *A summary of the readiness of supporting*  
17          *capabilities, including infrastructure, prepositioned*  
18          *equipment and supplies, and mobility assets, and*  
19          *other supporting logistics capabilities.*

20          “(7) *A summary of the readiness of the combat*  
21          *support and related agencies, any readiness problem*  
22          *or deficiency affecting any mission essential tasks of*  
23          *any such agency, and actions recommended to address*  
24          *any such problem or deficiency.*

1           “(8) *A list of all Class A, Class B, and Class C*  
2           *mishaps that occurred in operations related to combat*  
3           *support and training events involving aviation,*  
4           *ground, or naval platforms, weapons, space, or Gov-*  
5           *ernment vehicles, as defined by Department of Defense*  
6           *Instruction 6055.07, or a successor instruction.*

7           “(9) *Information on the extent to which units of*  
8           *the armed forces have removed serviceable parts, sup-*  
9           *plies, or equipment from one vehicle, vessel, or air-*  
10           *craft in order to render a different vehicle, vessel, or*  
11           *aircraft operational.*

12           “(10) *Such other information as determined nec-*  
13           *essary or appropriate by the Secretary of Defense.”;*

14           (4) *by striking subsections (d) through (h) and*  
15           *subsection (j);*

16           (5) *by redesignating subsection (i) as subsection*  
17           *(e); and*

18           (6) *by inserting after subsection (c) the following*  
19           *new subsections (d):*

20           “(d) *SEMI-ANNUAL JOINT FORCE READINESS RE-*  
21           *VIEW.—(1) Not later than 30 days after the last day of the*  
22           *first and third quarter of each calendar year, the Chairman*  
23           *of the Joint Chiefs of Staff shall submit to Congress a writ-*  
24           *ten report on the capability of the armed forces, the combat*  
25           *support and related agencies, operational contract support,*

1 *and the geographic and functional combatant commands to*  
2 *execute their wartime missions based upon their posture*  
3 *and readiness as of the time the review is conducted.*

4       “(2) *The Chairman shall produce the report required*  
5 *under this subsection using information derived from the*  
6 *quarterly reports required by subsection (a).*”

7       “(3) *Each report required by this subsection shall in-*  
8 *clude an assessment by each commander of a geographic*  
9 *or functional combatant command of the readiness of the*  
10 *command to conduct operations in a multidomain battle*  
11 *that integrates ground, sea, air, space, cyber, and special*  
12 *operations forces.*”

13       “(4) *The Chairman shall submit to the Secretary of*  
14 *Defense a copy of each report under this subsection.*”

15       (c) *CLERICAL AMENDMENT.—The table of sections at*  
16 *the beginning of chapter 23 of such title is amended by*  
17 *striking the item relating to section 482 and inserting the*  
18 *following new item:*

*“482. Readiness reports.”.*

19 **SEC. 342. EXTENSION OF DEADLINE FOR TRANSITION FROM**  
20 **SERVICE-SPECIFIC DEFENSE READINESS RE-**  
21 **PORTING SYSTEMS.**

22       *Section 358(c) of the John S. McCain National Defense*  
23 *Authorization Act for Fiscal Year 2019 (Public Law 115–*  
24 *232) is amended by striking “October 1, 2019” and insert-*  
25 *ing “October 1, 2020”.*

1 **SEC. 343. REPORT ON NAVY SHIP DEPOT MAINTENANCE**  
2 **BUDGET.**

3 (a) *IN GENERAL.*—Not later than March 1 of each of  
4 2020, 2021, and 2022, the Secretary of the Navy shall sub-  
5 mit to the Committees on Armed Services of the Senate and  
6 the House of Representatives a report on the Operation and  
7 Maintenance Ship Depot Maintenance budget sub-activity  
8 group.

9 (b) *ELEMENTS.*—The report required under subsection  
10 (a) shall include each of the following elements:

11 (1) *A breakdown of funding, categorized by class*  
12 *of ship, requested for ship and submarine mainte-*  
13 *nance.*

14 (2) *A description of how the requested funding,*  
15 *categorized by class of ship, compares to the identified*  
16 *ship maintenance requirement.*

17 (3) *The amount of funds appropriated for each*  
18 *class of ship for the preceding fiscal year.*

19 (4) *The amount of funds obligated and expended*  
20 *for each class of ship for each of the three preceding*  
21 *fiscal years.*

22 (5) *The cost, categorized by class of ship, of un-*  
23 *planned growth work for each of the three preceding*  
24 *fiscal years.*

1 **SEC. 344. REPORT ON RUNIT DOME.**

2       (a) *REPORT REQUIRED.*—Not later than 180 days  
3 after the date of the enactment of this Act, the Secretary  
4 of Energy, in coordination with the Administrator of the  
5 Environmental Protection Agency and Secretary of Defense,  
6 shall submit to the Committee on Energy and Commerce,  
7 the Committee on Natural Resources, and the Committee  
8 on Armed Services of the House of Representatives and the  
9 Committee on Armed Services and the Committee on En-  
10 ergy and Natural Resources of the Senate a report on the  
11 status of the Runit Dome in the Marshal Islands.

12       (b) *MATTERS FOR INCLUSION.*—The report required by  
13 subsection (a) shall include each of the following:

14           (1) *A detailed plan to remove the radioactive*  
15 *materials in the dome to a safer and more stable loca-*  
16 *tion, including a predicted timeline and associated*  
17 *costs.*

18           (2) *A detailed plan to repair the dome to ensure*  
19 *that it does not have any harmful effects to the local*  
20 *population, environment, or wildlife, including the*  
21 *projected costs of implementing such plan.*

22           (3) *The effects on the environment that the dome*  
23 *has currently and is projected to have in 5 years, 10*  
24 *years, and 20 years.*

25           (4) *An assessment on the safety of food gathered*  
26 *from local food sources.*

1           (5) *An assessment of the current condition of the*  
2 *outer constructs of the dome.*

3           (6) *An assessment of the current and long-term*  
4 *safety to local humans posed by the site.*

5           (7) *How climate change and rising sea levels are*  
6 *predicted to affect the dome, including a description*  
7 *of projected scenarios if the dome becomes partially or*  
8 *fully submerged by ocean water.*

9           (8) *A summary of interactions between the Gov-*  
10 *ernment of the United States and the government of*  
11 *the Marshall Islands about the dome.*

12           (9) *A detailed description of the physical health*  
13 *effects on Pacific Islanders, including residents of Ha-*  
14 *waii, Fuji, and Samoa, of nuclear testing conducted*  
15 *at Runit Dome.*

16           (10) *A detailed description of the pre- and post-*  
17 *nuclear test communications between the United*  
18 *States and the governments of the territories and na-*  
19 *tions of the Pacific Islands, including Hawaii, Fuji,*  
20 *and Samoa.*

21           (c) *FORM OF REPORT.*—*The report required by sub-*  
22 *section (a) shall be submitted in unclassified form and*  
23 *made publicly available.*

1                   ***Subtitle E—Other Matters***

2   ***SEC. 351. INCLUSION OF OVER-THE-HORIZON RADARS IN***  
 3                   ***EARLY OUTREACH PROCEDURES.***

4           *Section 183a(c)(6) of title 10, United States Code, is*  
 5 *amended by striking “or airport surveillance radar” and*  
 6 *inserting “, airport surveillance radar, or wide area sur-*  
 7 *veillance over-the-horizon radar”.*

8   ***SEC. 352. EXTENSION OF AUTHORITY FOR SECRETARY OF***  
 9                   ***DEFENSE TO USE DEPARTMENT OF DEFENSE***  
 10                  ***REIMBURSEMENT RATE FOR TRANSPOR-***  
 11                  ***TATION SERVICES PROVIDED TO CERTAIN***  
 12                  ***NON-DEPARTMENT OF DEFENSE ENTITIES.***

13           *Section 2642(b) of title 10, United States Code, is*  
 14 *amended by striking “October 1, 2019” and inserting “Oc-*  
 15 *tober 1, 2024”.*

16   ***SEC. 353. EXPANDED TRANSFER AND ADOPTION OF MILI-***  
 17                  ***TARY ANIMALS.***

18           *Section 2583 of title 10, United States Code, is amend-*  
 19 *ed—*

20                   (1) *in subsection (a)—*

21                           (A) *in the subsection heading, by inserting*  
 22                           *“TRANSFER OR” before “ADOPTION”; and*

23                           (B) *by striking “adoption” each place it ap-*  
 24                           *pears and inserting “transfer or adoption”;*

25                   (2) *in subsection (b)—*

1           (A) in the subsection heading, by inserting  
2           “TRANSFER OR” before “ADOPTION”;

3           (B) in the first sentence, by striking “adop-  
4           tion” and inserting “transfer or adoption”; and

5           (C) in the second sentence, by striking  
6           “adoptability” and inserting “transferability or  
7           adoptability”;

8           (3) in subsection (c)(1)—

9           (A) in the matter preceding subparagraph  
10          (A), by inserting “transfer or” before “adop-  
11          tion”;

12          (B) in subparagraphs (A) and (B), by in-  
13          serting “adoption” before “by”;

14          (C) in subparagraph (B), by inserting “or  
15          organizations” after “persons”; and

16          (D) in subparagraph (C), by striking “by”  
17          and inserting “transfer to”;

18          (4) in subsection (e)—

19          (A) in the subsection heading, by inserting  
20          “OR ADOPTED” after “TRANSFERRED”;

21          (B) in paragraphs (1) and (2), by striking  
22          “transferred” each place it appears and insert-  
23          ing “transferred or adopted”; and

1           (C) in paragraph (2), by striking “transfer”  
2 each place it appears and inserting “transfer or  
3 adoption”;

4           (5) in subsection (f)—

5           (A) in the subsection heading, by striking  
6 “TRANSFER OF RETIRED” and inserting  
7 “TRANSPORTATION OF RETIRING”; and

8           (B) in paragraph (1), by striking “trans-  
9 fer” and inserting “transport”;

10          (6) in subsection (g)(3), by striking “adoption of  
11 military working dogs” and all that follows through  
12 the period at the end and inserting “transfer of mili-  
13 tary working dogs to law enforcement agencies before  
14 the end of the dogs’ useful working lives.”; and

15          (7) in subsection (h)(2), by striking “A horse”  
16 and inserting “An equid (horse, mule, or donkey)”.

17 **SEC. 354. EXTENSION OF AUTHORITY OF SECRETARY OF**  
18 **TRANSPORTATION TO ISSUE NON-PREMIUM**  
19 **AVIATION INSURANCE.**

20          Section 44310(b) of title 49, United States Code, is  
21 amended by striking “December 31, 2019” and inserting  
22 “September 30, 2023”.

23 **SEC. 355. DEFENSE PERSONAL PROPERTY PROGRAM.**

24          (a) **ADVISORY GROUP.**—

1           (1) *ESTABLISHMENT.*—*There is established an*  
2 *advisory group on the defense personal property pro-*  
3 *gram, to be known as the “Global Household Reloca-*  
4 *tion Services Advisory Committee”.*

5           (2) *MEMBERSHIP.*—*The advisory group shall be*  
6 *comprised of 15 members appointed from among indi-*  
7 *viduals who represent appropriate entities as follows:*

8           (A) *One member representing United States*  
9 *Transportation Command appointed by the*  
10 *Commander of United States Transportation*  
11 *Command.*

12           (B) *A flag or general officer of the Armed*  
13 *Forces representing each of the Army, Navy, Air*  
14 *Force, Marine Corps, and Coast Guard ap-*  
15 *pointed by the Vice Chief of Staff of the Army,*  
16 *Vice Chief of Naval Operations, Vice Chief of*  
17 *Staff of the Air Force, the Assistant Com-*  
18 *mandant of the Marine Corps, and Vice Com-*  
19 *mandant of the Coast Guard, respectively.*

20           (C) *Four members representing appropriate*  
21 *transportation service providers, including two*  
22 *small business concerns, appointed by the Assist-*  
23 *ant Secretary of Defense for Sustainment.*

24           (D) *Five members representing consumer*  
25 *representatives who are members of the Armed*

1           *Forces or spouses of members of the Armed*  
2           *Forces, one of whom is appointed by the senior*  
3           *non-commissioned officer of each of the Army,*  
4           *Navy, Air Force, Marine Corps, and Coast*  
5           *Guard.*

6           (3) *MEETINGS.*—*The advisory group shall con-*  
7           *vene regularly to provide to the Secretary of Defense*  
8           *feedback on the execution of, and any recommended*  
9           *changes to, the global household goods contract.*

10          (4) *REPORTS.*—

11                 (A) *QUARTERLY REPORTS.*—*Not later than*  
12                 *30 days after the last day of a fiscal quarter, the*  
13                 *advisory group shall submit to the congressional*  
14                 *defense committees a report on the activities and*  
15                 *recommendations of the advisory group during*  
16                 *such fiscal quarter.*

17                 (B) *TERMINATION OF REPORT REQUIRE-*  
18                 *MENT.*—*The requirement to submit a report*  
19                 *under subparagraph (A) shall terminate on the*  
20                 *termination date specified under paragraph*  
21                 *(5)(A).*

22           (5) *TERMINATION.*—*The advisory group shall*  
23           *terminate on the date that is five years after the date*  
24           *of the enactment of this Act.*

1       (b) *BUSINESS CASE ANALYSIS.*—Not later than 60  
2 days after the date of the enactment of this Act, the Com-  
3 mander of United States Transportation Command shall  
4 prepare a business case analysis for the proposed award  
5 of a global household goods contract for the defense personal  
6 property program.

7       (c) *LIMITATION.*—None of the funds authorized to be  
8 appropriated in this Act for fiscal year 2020 shall be avail-  
9 able to enter into a global household goods contract until  
10 the date that is 30 days after the date on which the Com-  
11 mander of United States Transportation Command pro-  
12 vides to the congressional defense committees a briefing  
13 on—

14           (1) the business case analysis required by sub-  
15 section (b); and

16           (2) the proposed structure and meeting schedule  
17 for the advisory group established under subsection  
18 (a).

19       (d) *DEFINITIONS.*—In this section:

20           (1) The term “global household goods contract”  
21 means the solicitation managed by United States  
22 Transportation Command to engage a private entity  
23 to manage the defense personal property program.

24           (2) The term “defense personal property pro-  
25 gram” means the Department of Defense program

1       *used to manage the shipment of the baggage and*  
2       *household effects of members of the Armed Forces*  
3       *under section 476 of title 37, United States Code.*

4   **SEC. 356. PUBLIC EVENTS ABOUT RED HILL BULK FUEL**  
5                   **STORAGE FACILITY.**

6       (a) *REQUIREMENT.*—*At least once every calendar*  
7       *quarter, the Secretary of the Navy, or the designee of the*  
8       *Secretary, shall hold an event that is open to the public*  
9       *at which the Secretary shall provide up-to-date information*  
10      *about the Red Hill Bulk Fuel Storage Facility.*

11      (b) *TERMINATION.*—*The requirement to hold events*  
12      *under subsection (a) shall terminate on the earlier of the*  
13      *following dates:*

14              (1) *September 30, 2025.*

15              (2) *The date on which the Red Hill Bulk Fuel*  
16      *Storage Facility ceases operation.*

17   **SEC. 357. SENSE OF CONGRESS REGARDING INNOVATIVE**  
18                   **READINESS TRAINING PROGRAM.**

19      *It is the sense of Congress that—*

20              (1) *the Innovative Readiness Training program*  
21      *is an effective training program for members of the*  
22      *Armed Forces and is highly beneficial to civilian-*  
23      *military relationships with local American commu-*  
24      *nities;*

1           (2) *due to the geographic complexities and reali-*  
2 *ties of non-contiguous States and territories, Innova-*  
3 *tive Readiness Training has lent greater benefit to*  
4 *such States and territories while providing unique*  
5 *and realistic training opportunities and deployment*  
6 *readiness for members of the Armed Forces;*

7           (3) *the Department of Defense should pursue*  
8 *continued Innovative Readiness Training opportuni-*  
9 *ties, and, where applicable, strongly encourage the use*  
10 *of Innovative Readiness Training in non-contiguous*  
11 *States and territories; and*

12           (4) *in considering whether to recommend a*  
13 *project, the Secretary should consider the benefits of*  
14 *the project to the economy of a region damaged by*  
15 *natural disasters.*

16 **SEC. 358. PILOT PROGRAM ON REDUCTION OF EFFECTS OF**  
17 **MILITARY AVIATION NOISE ON PRIVATE RESI-**  
18 **DENCES.**

19           (a) *IN GENERAL.*—*The Secretary of Defense shall*  
20 *carry out a five-year pilot program under which the com-*  
21 *mander of a military installation may provide funds for*  
22 *the purpose of installing noise insulation on private resi-*  
23 *dences impacted by military aviation noise from the instal-*  
24 *lation.*

1       (b) *ELIGIBILITY.*—*To be eligible to receive funds under*  
2 *the pilot program, a recipient shall enter into an agreement*  
3 *with the commander to—*

4           (1) *provide at least 50 percent of the funds re-*  
5 *quired to carry out the noise insulation; and*

6           (2) *ensure that the noise at any private residence*  
7 *where insulation is installed is reduced by at least 5*  
8 *dB.*

9       (c) *USE OF FUNDS.*—*Funds provided under the pilot*  
10 *program shall be used for the installation of noise insula-*  
11 *tion at a residence—*

12           (1) *located within a Department of Defense noise*  
13 *contour between 65 dB day-night average sound level*  
14 *and 75 dB day-night average sound level as validated*  
15 *on a National Environmental Policy Act-compliant*  
16 *assessment within the past three years; and*

17           (2) *where interior noise has been measured at 45*  
18 *dB day-night average sound level by the installation.*

19       (d) *GOALS AND BEST PRACTICES.*—*In carrying out*  
20 *the pilot program under this section, a commander shall*  
21 *use the following goals and best practices:*

22           (1) *Minimize cost in order to maximize number*  
23 *of homes served.*

24           (2) *Focus efforts on residences newly impacted*  
25 *by increased noise levels.*

1 **TITLE IV—MILITARY PERSONNEL**  
2 **AUTHORIZATIONS**  
3 **Subtitle A—Active Forces**

4 **SEC. 401. END STRENGTHS FOR ACTIVE FORCES.**

5 *The Armed Forces are authorized strengths for active*  
6 *duty personnel as of September 30, 2020, as follows:*

7 *(1) The Army, 480,000.*

8 *(2) The Navy, 340,500.*

9 *(3) The Marine Corps, 186,200.*

10 *(4) The Air Force, 332,800.*

11 **SEC. 402. REVISIONS IN PERMANENT ACTIVE DUTY END**  
12 **STRENGTH MINIMUM LEVELS.**

13 *Section 691(b) of title 10, United States Code, is*  
14 *amended by striking paragraphs (1) through (4) and insert-*  
15 *ing the following new paragraphs:*

16 *“(1) For the Army, 480,000.*

17 *“(2) For the Navy, 340,500.*

18 *“(3) For the Marine Corps, 186,200.*

19 *“(4) For the Air Force, 332,800.”.*

20 **Subtitle B—Reserve Forces**

21 **SEC. 411. END STRENGTHS FOR SELECTED RESERVE.**

22 *(a) IN GENERAL.—The Armed Forces are authorized*  
23 *strengths for Selected Reserve personnel of the reserve com-*  
24 *ponents as of September 30, 2020, as follows:*

1           (1) *The Army National Guard of the United*  
2           *States, 336,000.*

3           (2) *The Army Reserve, 189,500.*

4           (3) *The Navy Reserve, 59,000.*

5           (4) *The Marine Corps Reserve, 38,500.*

6           (5) *The Air National Guard of the United*  
7           *States, 107,700.*

8           (6) *The Air Force Reserve, 70,100.*

9           (7) *The Coast Guard Reserve, 7,000.*

10          (b) *END STRENGTH REDUCTIONS.—The end strengths*  
11          *prescribed by subsection (a) for the Selected Reserve of any*  
12          *reserve component shall be proportionately reduced by—*

13               (1) *the total authorized strength of units orga-*  
14               *nized to serve as units of the Selected Reserve of such*  
15               *component which are on active duty (other than for*  
16               *training) at the end of the fiscal year; and*

17               (2) *the total number of individual members not*  
18               *in units organized to serve as units of the Selected*  
19               *Reserve of such component who are on active duty*  
20               *(other than for training or for unsatisfactory partici-*  
21               *ipation in training) without their consent at the end*  
22               *of the fiscal year.*

23          (c) *END STRENGTH INCREASES.—Whenever units or*  
24          *individual members of the Selected Reserve of any reserve*  
25          *component are released from active duty during any fiscal*

1 year, the end strength prescribed for such fiscal year for  
2 the Selected Reserve of such reserve component shall be in-  
3 creased proportionately by the total authorized strengths of  
4 such units and by the total number of such individual mem-  
5 bers.

6 **SEC. 412. END STRENGTHS FOR RESERVES ON ACTIVE**  
7 **DUTY IN SUPPORT OF THE RESERVES.**

8 *Within the end strengths prescribed in section 411(a),*  
9 *the reserve components of the Armed Forces are authorized,*  
10 *as of September 30, 2020, the following number of Reserves*  
11 *to be serving on full-time active duty or full-time duty, in*  
12 *the case of members of the National Guard, for the purpose*  
13 *of organizing, administering, recruiting, instructing, or*  
14 *training the reserve components:*

15 (1) *The Army National Guard of the United*  
16 *States, 30,595.*

17 (2) *The Army Reserve, 16,511.*

18 (3) *The Navy Reserve, 10,155.*

19 (4) *The Marine Corps Reserve, 2,386.*

20 (5) *The Air National Guard of the United*  
21 *States, 22,637.*

22 (6) *The Air Force Reserve, 4,431.*

1 **SEC. 413. END STRENGTHS FOR MILITARY TECHNICIANS**  
2 **(DUAL STATUS).**

3 *The minimum number of military technicians (dual*  
4 *status) as of the last day of fiscal year 2020 for the reserve*  
5 *components of the Army and the Air Force (notwith-*  
6 *standing section 129 of title 10, United States Code) shall*  
7 *be the following:*

8 (1) *For the Army National Guard of the United*  
9 *States, 22,294.*

10 (2) *For the Army Reserve, 6,492.*

11 (3) *For the Air National Guard of the United*  
12 *States, 13,573.*

13 (4) *For the Air Force Reserve, 8,848.*

14 **SEC. 414. MAXIMUM NUMBER OF RESERVE PERSONNEL AU-**  
15 **THORIZED TO BE ON ACTIVE DUTY FOR**  
16 **OPERATIONAL SUPPORT.**

17 *During fiscal year 2020, the maximum number of*  
18 *members of the reserve components of the Armed Forces who*  
19 *may be serving at any time on full-time operational sup-*  
20 *port duty under section 115(b) of title 10, United States*  
21 *Code, is the following:*

22 (1) *The Army National Guard of the United*  
23 *States, 17,000.*

24 (2) *The Army Reserve, 13,000.*

25 (3) *The Navy Reserve, 6,200.*

26 (4) *The Marine Corps Reserve, 3,000.*

1           (5) *The Air National Guard of the United*  
2           *States, 16,000.*

3           (6) *The Air Force Reserve, 14,000.*

4           ***Subtitle C—Authorization of***  
5           ***Appropriations***

6           **SEC. 421. MILITARY PERSONNEL.**

7           (a) *AUTHORIZATION OF APPROPRIATIONS.—Funds are*  
8           *hereby authorized to be appropriated for fiscal year 2020*  
9           *for the use of the Armed Forces and other activities and*  
10           *agencies of the Department of Defense for expenses, not oth-*  
11           *erwise provided for, for military personnel, as specified in*  
12           *the funding table in section 4401.*

13           (b) *CONSTRUCTION OF AUTHORIZATION.—The author-*  
14           *ization of appropriations in the subsection (a) supersedes*  
15           *any other authorization of appropriations (definite or in-*  
16           *definite) for such purpose for fiscal year 2020.*

17           ***TITLE V—MILITARY PERSONNEL***  
18           ***POLICY***

19           ***Subtitle A—Officer Personnel Policy***

20           **SEC. 501. MANAGEMENT POLICIES FOR JOINT QUALIFIED**  
21           **OFFICERS.**

22           *Section 661(d)(3)(B) of title 10, United States Code,*  
23           *is amended in the third sentence by inserting “or a designee*  
24           *of the Chairman who is an officer of the armed forces in*  
25           *grade O-8 or higher” before the period.*

1 **SEC. 502. GRADE OF CHIEF OF THE VETERINARY CORPS OF**  
2 **THE ARMY.**

3 *Section 7084 of title 10, United States Code, is amend-*  
4 *ed by adding at the end the following: “An officer appointed*  
5 *to that position who holds a lower grade shall be appointed*  
6 *in the grade of brigadier general.”*

7 **SEC. 503. AUTHORITY OF PROMOTION BOARDS TO REC-**  
8 **COMMEND THAT OFFICERS OF PARTICULAR**  
9 **MERIT BE PLACED HIGHER ON PROMOTION**  
10 **LIST.**

11 *(a) IN GENERAL.—Section 14108 of title 10, United*  
12 *States Code, is amended by adding at the end the following*  
13 *new subsection:*

14 *“(f) HIGHER PLACEMENT OF OFFICERS OF PAR-*  
15 *TICULAR MERIT ON PROMOTION LIST.—(1) In selecting of-*  
16 *ficers to be recommended for promotion, a promotion board*  
17 *may, when authorized by the Secretary concerned, rec-*  
18 *ommend that officers of particular merit, from among those*  
19 *officers selected for promotion, be placed higher on the pro-*  
20 *motion list established by the Secretary under section*  
21 *14308(a) of this title.*

22 *“(2) A promotion board may make a recommendation*  
23 *under paragraph (1) only if an officer receives the rec-*  
24 *ommendation of—*

25 *“(A) a majority of the members of the promotion*  
26 *board; or*

1           “(B) an alternative requirement established by  
2           the Secretary concerned and furnished to the pro-  
3           motion board as part of the guidelines under section  
4           14107 of this title.

5           “(3) For officers who receive recommendations under  
6           paragraph (1), the board shall recommend the order in  
7           which those officers should be placed on the promotion list.”.

8           (b) *REPORTS REGARDING RECOMMENDATIONS THAT*  
9           *OFFICERS OF PARTICULAR MERIT BE PLACED HIGHER ON*  
10          *PROMOTION LIST.*—Section 14109 of such title is amended  
11          by adding at the end the following new subsection:

12          “(d) *REPORT OF OFFICERS RECOMMENDED FOR*  
13          *HIGHER PLACEMENT ON PROMOTION LIST.*—A promotion  
14          board convened under section 14101(a) of this title shall,  
15          when authorized under section 14108(f) of this title, include  
16          in its report to the Secretary concerned—

17                  “(1) the names of those officers the promotion  
18                  board recommends be placed higher on the promotion  
19                  list; and

20                  “(2) the order in which the promotion board rec-  
21                  ommends those officers should be placed on the pro-  
22                  motion list.”.

23          (c) *OFFICERS OF PARTICULAR MERIT APPEARING*  
24          *HIGHER ON PROMOTION LIST.*—Section 14308(a) of such  
25          title is amended in the first sentence by inserting “or based

1 *on particular merit, as determined by the promotion board”*  
2 *before the period.*

3 **SEC. 504. AVAILABILITY ON THE INTERNET OF CERTAIN IN-**  
4 **FORMATION ABOUT OFFICERS SERVING IN**  
5 **GENERAL OR FLAG OFFICER GRADES.**

6 *(a) AVAILABILITY REQUIRED.—*

7 *(1) IN GENERAL.—The Secretary of each mili-*  
8 *tary department shall make available on an internet*  
9 *website of such department available to the public in-*  
10 *formation specified in paragraph (2) on each officer*  
11 *in a general or flag officer grade under the jurisdic-*  
12 *tion of such Secretary, including any such officer on*  
13 *the reserve active-status list.*

14 *(2) INFORMATION.—The information on an offi-*  
15 *cer specified by this paragraph to be made available*  
16 *pursuant to paragraph (1) is the information as fol-*  
17 *lows:*

18 *(A) The officer’s name.*

19 *(B) The officer’s current grade, duty posi-*  
20 *tion, command or organization, and location of*  
21 *assignment.*

22 *(C) A summary list of the officer’s past*  
23 *duty assignments while serving in a general or*  
24 *flag officer grade.*

1           (b) *ADDITIONAL PUBLIC NOTICE ON CERTAIN OFFI-*  
2 *CERS.*—Whenever an officer in a grade of O-7 or above is  
3 assigned to a new billet or reassigned from a current billet,  
4 the Secretary of the military department having jurisdic-  
5 tion of such officer shall make available on an internet  
6 website of such department available to the public a notice  
7 of such assignment or reassignment.

8           (c) *LIMITATION ON WITHHOLDING OF CERTAIN INFOR-*  
9 *MATION OR NOTICE.*—

10           (1) *LIMITATION.*—The Secretary of a military  
11 department may not withhold the information or no-  
12 tice specified in subsections (a) and (b) from public  
13 availability pursuant to subsection (a), unless and  
14 until the Secretary notifies the Committees on Armed  
15 Services of the Senate and House of Representatives  
16 in writing of the information or notice that will be  
17 so withheld, together with justification for with-  
18 holding the information or notice from public avail-  
19 ability.

20           (2) *LIMITED DURATION OF WITHHOLDING.*—The  
21 Secretary concerned may withhold from the public  
22 under paragraph (1) information or notice on an offi-  
23 cer only on the basis of individual risk or national  
24 security, and may continue to withhold such informa-

1        *tion or notice only for so long as the basis for with-*  
2        *holding remains in force.*

3        ***Subtitle B—Reserve Component***  
4                                    ***Management***

5        ***SEC. 511. GRADE OF CERTAIN CHIEFS OF RESERVE COMPO-***  
6                                    ***NENTS.***

7        *(a) IN GENERAL.—*

8                    *(1) CHIEF OF ARMY RESERVE.—Section*  
9                    *7038(b)(1) of title 10, United States Code, is amended*  
10                  *by striking “general officers of the Army Reserve”*  
11                  *and inserting “officers of the Army Reserve in the*  
12                  *grade of lieutenant general and”.*

13                  *(2) CHIEF OF NAVY RESERVE.—Section*  
14                  *8083(b)(1) of such title is amended by striking “flag*  
15                  *officers of the Navy (as defined in section 8001(1))”*  
16                  *and inserting “officers of the Navy Reserve in the*  
17                  *grade of vice admiral and”.*

18                  *(3) COMMANDER, MARINE FORCES RESERVE.—*  
19                  *Section 8084(b)(1) of such title is amended by strik-*  
20                  *ing “general officers of the Marine Corps (as defined*  
21                  *in section 8001(2))” and inserting “officers of the Ma-*  
22                  *rine Corps Reserve in the grade of lieutenant general*  
23                  *and”.*

24                  *(4) CHIEF OF AIR FORCE RESERVE.—Section*  
25                  *9038(b)(1) of such title is amended by striking “gen-*

1 *eral officers of the Air Force Reserve” and inserting*  
2 *“officers of the Air Force Reserve in the grade of lieu-*  
3 *tenant general and”.*

4 *(b) EFFECTIVE DATE.—The amendments made under*  
5 *subsection (a) shall take effect on the date that is one year*  
6 *after the date of the enactment of this Act and shall apply*  
7 *to appointments made after such date.*

8 **SECTION 512. AUTHORITY TO DEFER MANDATORY SEPARA-**  
9 **TION AT AGE 68 OF OFFICERS IN MEDICAL**  
10 **SPECIALTIES IN THE RESERVE COMPONENTS.**

11 *Section 14703(b) of title 10, United States Code, is*  
12 *amended—*

13 *(1) by striking “An” and inserting “(1) Subject*  
14 *to paragraph (2), an”;* and

15 *(2) by adding at the end the following new para-*  
16 *graph (2):*

17 *“(2) The Secretary concerned may, with the consent*  
18 *of the officer, retain in an active status an officer in a med-*  
19 *ical specialty described in subsection (a) beyond the date*  
20 *described in paragraph (1) of this subsection if the Sec-*  
21 *retary concerned determines that such retention is necessary*  
22 *to the military department concerned. Each such retention*  
23 *shall be made on a case-by-case basis and for such period*  
24 *as the Secretary concerned determines appropriate.”.*

1 **SEC. 513. REPEAL OF REQUIREMENT FOR REVIEW OF CER-**  
2 **TAIN ARMY RESERVE OFFICER UNIT VACANCY**  
3 **PROMOTIONS BY COMMANDERS OF ASSOCI-**  
4 **ATED ACTIVE DUTY UNITS.**

5 *Section 1113 of the Army National Guard Combat*  
6 *Readiness Reform Act of 1992 (Public Law 102-484; 10*  
7 *U.S.C. 10105 note) is repealed.*

8 **SEC. 514. GUIDANCE FOR USE OF UNMANNED AIRCRAFT**  
9 **SYSTEMS BY THE NATIONAL GUARD.**

10 *(a) NEW GUIDANCE.—Not later than 90 days after the*  
11 *date of the enactment of this Act, the Secretary of Defense*  
12 *shall issue new guidance that treats the use of unmanned*  
13 *aircraft systems by the National Guard for covered activi-*  
14 *ties in a manner no more restrictive than the use of other*  
15 *aircraft for covered activities.*

16 *(b) COVERED ACTIVITIES DEFINED.—In this section,*  
17 *“covered activities” means the following:*

18 *(1) Emergency operations.*

19 *(2) Search and rescue operations.*

20 *(3) Defense support to civil authorities.*

21 *(4) Support under section 502(f) of title 32,*  
22 *United States Code.*

23 **SEC. 515. JUNIOR RESERVE OFFICERS’ TRAINING CORPS.**

24 *(a) IN GENERAL.—Section 2031(b)(3) of title 10,*  
25 *United States Code, is amended by inserting “and which*  
26 *may include instruction or activities in the fields of science,*

1 *technology, engineering, and mathematics” after “dura-*  
2 *tion”.*

3       **(b) EFFECTIVE DATE.**—*The amendment made by sub-*  
4 *section (a) shall take effect 180 days after the date of the*  
5 *enactment of this Act.*

6 **SEC. 516. JROTC COMPUTER SCIENCE AND CYBERSECURITY**  
7 **PROGRAM.**

8       *Chapter 102 of title 10, United States Code, is amend-*  
9 *ed by adding at the end the following new section:*

10 **“§2036. Computer science and cybersecurity program**

11       **“(a) PROGRAM AUTHORIZED.**—*The Secretary of De-*  
12 *fense may carry out a program to enhance the preparation*  
13 *of students in the Junior Reserve Officers’ Training Corps*  
14 *for careers in computer science and cybersecurity.*

15       **“(b) COORDINATION.**—*In carrying out the program,*  
16 *the Secretary shall coordinate with the following:*

17               **“(1) The Secretaries of the military departments.**

18               **“(2) The Secretary of Education.**

19               **“(3) The National Science Foundation.**

20               **“(4) The heads of such other Federal, State, and**  
21 *local government entities the Secretary of Defense*  
22 *determines appropriate.*

23               **“(5) Private sector organizations the Secretary of**  
24 *Defense determines appropriate.*

1       “(c) *ACTIVITIES.*—Activities under the program may  
2 include the following:

3               “(1) *Establishment of targeted internships and*  
4 *cooperative research opportunities in computer science*  
5 *and cybersecurity at defense laboratories and other*  
6 *technical centers for students in and instructors of the*  
7 *Junior Reserve Officers’ Training Corps.*

8               “(2) *Funding for training and other supports for*  
9 *instructors to teach evidence-based courses in com-*  
10 *puter science and cybersecurity to students.*

11              “(3) *Efforts and activities that improve the qual-*  
12 *ity of cybersecurity and computer science educational,*  
13 *training opportunities, and curricula for students*  
14 *and instructors.*

15              “(4) *Development of travel opportunities, dem-*  
16 *onstrations, mentoring programs, and informal com-*  
17 *puter science and cybersecurity education for students*  
18 *and instructors.*

19       “(d) *METRICS.*—The Secretary shall establish outcome-  
20 based metrics and internal and external assessments to  
21 evaluate the merits and benefits of activities conducted  
22 under the program with respect to the needs of the Depart-  
23 ment of Defense.

24       “(e) *AUTHORITIES.*—In carrying out the program, the  
25 Secretary shall, to the maximum extent practicable, make

1 *use of the authorities under section 2193b, chapter 111, and*  
2 *sections 2601, 2605, and 2374a of this title, section 219 of*  
3 *the Duncan Hunter National Defense Authorization Act for*  
4 *Fiscal Year 2009 (Public Law 110–417; 10 U.S.C. 2358*  
5 *note), and other authorities the Secretary determines appro-*  
6 *priate.*

7       “(f) *REPORT.*—Not later than two years after the date  
8 *of the enactment of the National Defense Authorization Act*  
9 *for Fiscal Year 2020, the Secretary shall submit to the Com-*  
10 *mittees on Armed Services of the Senate and the House of*  
11 *Representatives a report on activities carried out under the*  
12 *program.”.*

13 **SEC. 517. PROGRAMS OF SCHOLARSHIPS FOR MEMBERS OF**  
14                   **JUNIOR RESERVE OFFICERS’ TRAINING**  
15                   **CORPS UNITS TOWARD OBTAINING PRIVATE**  
16                   **PILOT’S CERTIFICATES.**

17       (a) *PROGRAMS AUTHORIZED.*—Each Secretary of a  
18 *military department may carry out a program to award*  
19 *scholarships to qualified members of units of the Junior Re-*  
20 *serve Officers’ Training Corps under the jurisdiction of such*  
21 *Secretary to assist such members in obtaining a private pi-*  
22 *lot’s certificate through an institution of higher education*  
23 *with an accredited aviation program that is approved by*  
24 *such Secretary pursuant to subsection (c).*

25       (b) *MEMBER QUALIFICATIONS.*—

1           (1) *IN GENERAL.*—*In carrying out a program*  
2           *under subsection (a), the Secretary of a military de-*  
3           *partment shall prescribe the standards to be met by*  
4           *members of units of the Junior Reserve Officers’*  
5           *Training Corps under the jurisdiction of such Sec-*  
6           *retary to be eligible for the award of a scholarship*  
7           *under the program.*

8           (2) *UNIFORMITY ACROSS MILITARY DEPART-*  
9           *MENTS.*—*To the extent practicable, the standards pre-*  
10          *scribed under this subsection shall be uniform across*  
11          *the military departments.*

12          (c) *APPROVED INSTITUTIONS OF HIGHER EDU-*  
13          *CATION.*—

14               (1) *IN GENERAL.*—*In carrying out a program*  
15               *under subsection (a), the Secretary of a military de-*  
16               *partment shall maintain a list of institutions of high-*  
17               *er education (as that term is defined in section 101*  
18               *of the Higher Education Act of 1965 (20 U.S.C.*  
19               *1001)) at which a scholarship awarded under the pro-*  
20               *gram may be used toward obtaining a private pilot’s*  
21               *certificate.*

22               (2) *QUALIFICATIONS AND STANDARDS.*—*Any in-*  
23               *stitution of higher education included on a list under*  
24               *this subsection, and any course of instruction toward*  
25               *obtaining a private pilot’s certificate offered by such*

1 *institution, shall meet such qualifications and stand-*  
2 *ards as the Secretary shall prescribe for purposes of*  
3 *the program. Such qualifications and standards shall*  
4 *include a requirement that any institution included*  
5 *on the list award academic credit at such institution*  
6 *to any member awarded a scholarship under the pro-*  
7 *gram for work (whether or not fully completed) on the*  
8 *ground school course of instruction of such institution*  
9 *in connection with obtaining a private pilot's certifi-*  
10 *cate.*

11 *(d) SCHOLARSHIP.—*

12 *(1) AMOUNT.—The amount of the scholarship*  
13 *awarded a member of a Junior Reserve Officers'*  
14 *Training Corps under a program under subsection*  
15 *(a) shall be such amount as the Secretary of the mili-*  
16 *tary department concerned considers appropriate to*  
17 *defray, whether in whole or in part, the charges and*  
18 *fees of a course of instruction toward obtaining a pri-*  
19 *vate pilot's certificate offered by the institution of*  
20 *higher education to be attended by the member in ob-*  
21 *taining the certificate.*

22 *(2) USE.—A scholarship awarded a member*  
23 *under a program may be used by the member only to*  
24 *defray the charges and fees of an institution of higher*

1        *education for a course of instruction toward obtaining*  
2        *a private pilot's certificate.*

3            (3) *MAINTENANCE OF MEMBERSHIP.*—*A scholar-*  
4        *ship awarded an individual under a program may be*  
5        *used by the individual only while the individual*  
6        *maintains membership in a unit of a Junior Reserve*  
7        *Officers' Training Corps.*

8        (e) *ANNUAL REPORTS ON PROGRAMS.*—

9            (1) *IN GENERAL.*—*Not later than February 28,*  
10        *2021, and each year thereafter, each Secretary of a*  
11        *military department shall submit to Congress a re-*  
12        *port on the program, if any, carried out by such Sec-*  
13        *retary during the preceding calendar year.*

14            (2) *ELEMENTS.*—*Each report under paragraph*  
15        *(1) shall include, for the program and year covered*  
16        *by such report, the following:*

17                    (A) *The number of scholarships awarded.*

18                    (B) *The total amount of scholarships*  
19        *awarded.*

20                    (C) *The work undertaken through such*  
21        *scholarships, including the number of recipients*  
22        *who fully completed a ground school course of in-*  
23        *struction in connection with obtaining a private*  
24        *pilot's certificate.*

25        (f) *ASSESSMENT OF RELATED PILOT PROGRAM.*—

1           (1) *IN GENERAL.*—Not later than 180 days after  
2           the date of the enactment of this Act, the Secretary of  
3           Defense shall submit to Congress a report setting forth  
4           the results of an assessment, conducted by the study  
5           group described in paragraph (2) for purposes of the  
6           report, of the pilot program conducted by the Air  
7           Force in 2018 and 2019 known as the “Air Force  
8           JROTC Flight Academy, Chief of Staff Private Pilot  
9           Scholarship Program”.

10           (2) *STUDY GROUP.*—The study group described  
11           in this paragraph shall include the following:

12                   (A) A representative of the Department of  
13                   Defense, selected by the Secretary of Defense.

14                   (B) A representative of the headquarters of  
15                   the Air Force Junior Reserve Officers’ Training  
16                   Corps with experience with the pilot program,  
17                   selected by the Secretary of the Air Force.

18                   (C) In addition to the representative under  
19                   subparagraph (B), a representative of each mili-  
20                   tary department, selected by the Secretary of  
21                   such military department.

22                   (D) A representative of the Department of  
23                   Transportation, selected by the Secretary of  
24                   Transportation.

1           (E) A representative of the Department of  
2           Education, selected by the Secretary of Edu-  
3           cation.

4           (F) Representatives of such private organi-  
5           zations and entities as the Secretary of Defense  
6           considers appropriate.

7           (3) *ELEMENTS.*—The assessment required by  
8           paragraph (1) shall identify best practices in assist-  
9           ing members of the Junior Reserve Officers’ Training  
10          Corps in obtaining a private pilot’s certificate  
11          through institutions of higher education, including the  
12          most appropriate funding mechanisms for such prac-  
13          tices.

14 **SEC. 518. SENSE OF CONGRESS REGARDING JUNIOR RE-**  
15 **SERVE OFFICERS’ TRAINING CORPS.**

16          It is the sense of Congress that—

17               (1) the Junior Reserve Officers’ Training Corps  
18               (referred to in this section as “JROTC”) contributes  
19               to an enhanced sense of pride in our Nation and in  
20               the members of the Armed Forces who serve;

21               (2) JROTC develops a culture dedicated to serv-  
22               ice of our great land and reinforces duty, honor and  
23               courage;

1           (3) *the Nation has been steadily depending on a*  
2           *smaller and smaller minority of the population to*  
3           *fight its wars and protect its borders;*

4           (4) *this dwindling population risks the long-term*  
5           *security of our Nation and the freedoms it provides;*

6           (5) *JROTC operates in all 50 States and con-*  
7           *tributes to better grades and graduation rates; and*

8           (6) *JROTC was supported in the John S.*  
9           *McCain National Defense Authorization Act for Fis-*  
10          *cal Year 2019 (Public Law 115–232) and should be*  
11          *increased in fiscal year 2020, including at least 3,700*  
12          *JROTC units nationwide.*

13 **SEC. 519. SENSE OF CONGRESS REGARDING THE NATIONAL**  
14                                   **GUARD YOUTH CHALLENGE PROGRAM.**

15           *It is the sense of Congress that—*

16           (1) *the National Guard Youth Challenge Pro-*  
17           *gram provides a vital service to at-risk youth by pro-*  
18           *viding life-changing mentorship, developing self-dis-*  
19           *cipline, and providing education in valuable skills;*  
20           *and*

21           (2) *the Secretary of Defense should use the au-*  
22           *thority provided under section 509(h)(2) of title 32,*  
23           *United States Code, to allow Department of Defense*  
24           *equipment and facilities to be used by the National*

1       *Guard to maximize the support of the Department for*  
2       *the Youth Challenge Program.*

3       ***Subtitle C—General Service Au-***  
4       ***thorities and Correction of Mili-***  
5       ***tary Records***

6       ***SEC. 521. ESTABLISHMENT OF BOARD OF APPEALS REGARD-***  
7                   ***ING DENIED REQUESTS FOR UPGRADED DIS-***  
8                   ***CHARGES AND DISMISSALS.***

9       *(a) ESTABLISHMENT.—Chapter 79 of title 10, United*  
10       *States Code, is amended by inserting after section 1553 the*  
11       *following new section 1553a:*

12       ***“§ 1553a. Board of Discharge Appeals***

13           *“(a) ESTABLISHMENT.—(1) The Secretary of Defense*  
14       *shall establish a Board of Discharge Appeals to hear ap-*  
15       *peals of requests for upgraded discharges and dismissals*  
16       *under section 1553 of this title that are denied by the service*  
17       *review agencies.*

18           *“(2) The Board of Discharge Appeals shall consist of*  
19       *not fewer than three members appointed by the Secretary.*

20           *“(b) APPEAL.—(1) Upon the request of an appellant,*  
21       *the Board of Discharge Appeals shall review the findings*  
22       *and decisions of a service review agency regarding the re-*  
23       *view of the discharge or dismissal of the appellant.*

24           *“(2) The Board of Discharge Appeals may direct the*  
25       *Secretary of the military department concerned to change*

1 *the discharge or dismissal of an appellant, or issue a new*  
2 *discharge for an appellant, to reflect its findings.*

3 “(c) *DEFINITIONS.—In this section:*

4 “(1) *The term ‘appellant’ means a former mem-*  
5 *ber of the armed forces (or if the former member is*  
6 *dead, the surviving spouse, next of kin, or legal rep-*  
7 *resentative of the former member) whose request for*  
8 *an upgraded discharge or dismissal was denied by a*  
9 *service review agency.*

10 “(2) *The term ‘service review agency’ has the*  
11 *meaning given that term in section 1555 of this*  
12 *title.”.*

13 (b) *TECHNICAL AND CONFORMING AMENDMENTS.—*

14 (1) *TABLE OF SECTIONS.—The table of sections*  
15 *at the beginning of such chapter is amended by in-*  
16 *serting after the item relating to section 1553 the fol-*  
17 *lowing new item:*

*“1553a. Board of Discharge Appeals.”.*

18 (2) *CONFORMING AMENDMENT.—Section 1553(b)*  
19 *of title 10, United States Code, is amended—*

20 (A) *by inserting “(1)” before “A board”;*

21 *and*

22 (B) *by adding at the end the following new*  
23 *paragraph:*

24 “(2) *If a board of review established by the Secretary*  
25 *of a military department denies a request for an upgraded*

1 *discharge or dismissal, that denial may be appealed to the*  
2 *Board of Discharge Appeals under section 1553a of this*  
3 *title.”.*

4 (c) *DEADLINE.*—*The Secretary of Defense shall estab-*  
5 *lish and implement the Board of Discharge Appeals under*  
6 *such section 1553a of title 10, United States Code, as added*  
7 *by subsection (a), not later than September 30, 2020.*

8 (d) *TRAINING.*—*Each member of the Board of Dis-*  
9 *charge Appeals established under such section 1553a shall*  
10 *receive training under section 534(c) of the National De-*  
11 *fense Authorization Act for Fiscal Year 2017 (Public Law*  
12 *114–328; 10 U.S.C. 1552 note).*

13 (e) *REPORTING.*—

14 (1) *REPORT.*—*Not later than April 1, 2021, the*  
15 *Secretary of Defense shall submit to the Committees*  
16 *on Armed Services of the Senate and the House of*  
17 *Representatives a report regarding the Board of Dis-*  
18 *charge Appeals established under such section 1553a.*  
19 *The report shall include, with respect to appeals*  
20 *heard by the Board of Discharge Appeals since imple-*  
21 *mentation, the following:*

22 (A) *The number of appeals heard.*

23 (B) *The number of appeals granted.*

24 (C) *The number of appeals denied, includ-*  
25 *ing the reasons for such denials.*

1           (D) *A summary of any differences between*  
2           *reviews under section 1553 of title 10, United*  
3           *States Code, and appeals under section 1553a of*  
4           *such title.*

5           (2) *ONLINE PUBLICATION.*—*On October 1 of each*  
6           *year starting in 2022, the Secretary shall publish on-*  
7           *line the information described in subparagraphs (A),*  
8           *(B), and (C) of paragraph (1) with regards to the*  
9           *preceding fiscal year.*

10 **SEC. 522. PROHIBITION ON REDUCTION IN THE NUMBER OF**  
11                                   **PERSONNEL ASSIGNED TO DUTY WITH A**  
12                                   **SERVICE REVIEW AGENCY.**

13           (a) *PROHIBITION.*—*Section 1559(a) of title 10, United*  
14           *States Code, is amended—*

15                   (1) *by striking “December 31, 2019” and insert-*  
16                   *ing “December 31, 2025”;*

17                   (2) *by striking “that agency until—” and insert-*  
18                   *ing “that agency.”; and*

19                   (3) *by striking subsections (1) and (2).*

20           (b) *REPORT.*—

21                   (1) *REPORT REQUIRED.*—*Not later than 180*  
22                   *days after the enactment of this Act, the Secretary of*  
23                   *each military department shall submit a report to the*  
24                   *Committees on Armed Services of the Senate and*  
25                   *House of Representatives that details a plan to—*

1           (A) reduce the backlog of applications before  
2           the service review agency of the military depart-  
3           ment concerned; and

4           (B) maintain the resources required to meet  
5           the timeliness standards for disposition of appli-  
6           cations before the Corrections Boards under sec-  
7           tion 1557 of title 10, United States Code, not  
8           later than October 1, 2021.

9           (2) *ELEMENTS.*—Each report under this sub-  
10          section shall include the following:

11           (A) A description of the current backlog of  
12           applications before the service review agency of  
13           the military department concerned.

14           (B) The number of personnel required to  
15           meet the deadline described in paragraph (1)(B).

16           (C) The plan of the Secretary concerned to  
17           modernize the application and review system of  
18           the service review agency of the military depart-  
19           ment concerned.

20   **SEC. 523. ADVISORY COMMITTEE ON RECORD AND SERVICE**  
21           **REVIEW BOARDS.**

22           (a) *ESTABLISHMENT.*—Not later than 180 days after  
23           the date of the enactment of this Act, the Secretary of De-  
24           fense shall establish a Department of Defense Advisory  
25           Committee to be known as the “Defense Advisory Committee

1 *on Record and Upgrade Review Boards” (in this section*  
2 *referred to as the “Advisory Committee”).*

3 *(b) MEMBERSHIP.—*

4 *(1) IN GENERAL.—The Advisory Committee shall*  
5 *consist of not more than 15 members appointed by the*  
6 *Secretary of Defense, eight of whom shall be civilian*  
7 *practitioners or representatives of organizations that*  
8 *have experience assisting members of the Armed*  
9 *Forces and veterans with cases before service review*  
10 *boards (as that term is defined in section 1555 of title*  
11 *10, United States Code).*

12 *(2) MEMBERS OF THE ARMED FORCES ON AC-*  
13 *TIVE DUTY INELIGIBLE.—A member of the Armed*  
14 *Forces serving on active duty may not serve as a*  
15 *member of the Advisory Committee.*

16 *(c) PERSONNEL.—*

17 *(1) EXPERIENCE REQUIRED.—At least 35 per-*  
18 *cent of members of the staff of the Advisory Com-*  
19 *mittee shall have experience described in subsection*  
20 *(b)(1).*

21 *(2) DIRECTOR; ASSISTANT DIRECTOR.—The di-*  
22 *rector and assistant director of the Advisory Com-*  
23 *mittee may not both be members of the Armed Forces*  
24 *serving on active duty.*

1           (3) *STAFF*.—Not more than 65 percent of the  
2           staff of the Advisory Committee may be comprised of  
3           members of the Armed Forces serving on active duty.

4           (d) *DUTIES*.—The Advisory Committee shall advise the  
5           Secretary of Defense on the best structure, practices, and  
6           procedures to ensure consistency of boards for the correction  
7           of military records and service review boards in carrying  
8           out their responsibilities under chapter 79 of title 10,  
9           United States Code, and in granting relief to claimants  
10          under that chapter.

11          (e) *ANNUAL REPORT*.—Not later than one year after  
12          the date of the establishment of the Advisory Committee and  
13          annually thereafter for the three subsequent years, the Advi-  
14          sory Committee shall submit to the Secretary of Defense and  
15          the congressional defense committees a report containing ob-  
16          servations and recommendations regarding issues of board  
17          operations and efficacy, including—

18                 (1) *granting relief at adequate rates;*

19                 (2) *adhering to the intent of Congress, including*  
20                 *regarding liberal consideration;*

21                 (3) *standards for evidence, training experience*  
22                 *and qualifications of board members;*

23                 (4) *efficacy of efforts to ensure consistency across*  
24                 *boards;*



1 *Forces of a completed United States Citizenship and Immi-*  
2 *gration Services Form N-426, the Secretary or the Officer*  
3 *shall—*

4           (1) *in the case of a member of the Armed Forces*  
5 *who has served or is serving honorably on active duty,*  
6 *provide certification that the nature of the member's*  
7 *service has been honorable by not later than five days*  
8 *from receiving the form;*

9           (2) *in the case of a member of the Armed Forces*  
10 *who has served or is serving honorably in a Reserve*  
11 *Component of the Armed Forces, provide such certifi-*  
12 *cation by not later than three weeks from receiving*  
13 *the form; and*

14           (3) *in the case of a member of the Armed Forces*  
15 *whose service has been other than honorable, provide*  
16 *to the member notice that a certification of honorable*  
17 *service will not be provided and justification for why*  
18 *such certification will not be provided—*

19                   (A) *in the case of a member who has served*  
20 *or is serving on active duty, by not later than*  
21 *five days from receiving the form; and*

22                   (B) *in the case of a member who has served*  
23 *or is serving in a Reserve Component, by not*  
24 *later than three weeks from receiving the form.*

1 **SEC. 525. PROHIBITION ON IMPLEMENTATION OF MILITARY**  
2 **SERVICE SUITABILITY DETERMINATIONS FOR**  
3 **FOREIGN NATIONALS WHO ARE LAWFUL PER-**  
4 **MANENT RESIDENTS.**

5 *The Secretary of Defense may not take any action to*  
6 *implement the memorandum titled “Military Service Suit-*  
7 *ability Determinations for Foreign Nationals Who Are*  
8 *Lawful Permanent Residents”, issued by the Secretary and*  
9 *dated October 13, 2017, until the Secretary reports to the*  
10 *congressional defense committees the justification for the*  
11 *policy changes required by such memorandum.*

12 **SEC. 526. STRATEGIC PLAN FOR DIVERSITY AND INCLU-**  
13 **SION.**

14 *(a) PLAN REQUIRED.—The Secretary of Defense shall*  
15 *design and implement a five-year strategic plan for diver-*  
16 *sity and inclusion in the Department of Defense.*

17 *(b) ELEMENTS.—The strategic plan under this sec-*  
18 *tion—*

19 *(1) shall be based on the strategic plan estab-*  
20 *lished under section 2 of Executive Order 13583 (3*  
21 *Fed. Reg. 13583 (August 18, 2011));*

22 *(2) shall incorporate existing efforts to promote*  
23 *diversity and inclusion within the Department; and*

24 *(3) may not conflict with the objectives of the*  
25 *2018 National Military Strategy.*

1           (c) *DEADLINE.*—*The Secretary shall implement the*  
2 *strategic plan under this section on January 1, 2020.*

3 **SEC. 527. INDEPENDENT STUDY ON BARRIERS TO ENTRY**  
4                           **INTO THE ARMED FORCES FOR ENGLISH**  
5                           **LEARNERS.**

6           (a) *INDEPENDENT STUDY.*—*Not later than 30 days*  
7 *after the date of the enactment of this Act, the Secretary*  
8 *of Defense shall seek to enter into a contract with*  
9 *a federally funded research and development center under*  
10 *which the center will conduct a study on barriers to entry*  
11 *into the Armed Forces for English learners.*

12           (b) *ELEMENTS.*—*The study under subsection (a)*  
13 *shall—*

14                   (1) *identify barriers to entry into the Armed*  
15 *Forces for English learners, including—*

16                           (A) *challenges with military recruiters and*  
17 *language proficiency;*

18                           (B) *challenges with the assessment of poten-*  
19 *tial recruits, including the construction and de-*  
20 *livery of and testing time constraints related to*  
21 *the Armed Services Vocational Aptitude Battery;*

22                           (C) *challenges with dissemination of re-*  
23 *cruiting information; and*

1           (D) any other challenges that may be iden-  
2           tified by the federally funded research and devel-  
3           opment center in the course of the study;

4           (2) the effect of such barriers on—

5                 (A) the number of interactions recruiters  
6           have with English learners;

7                 (B) the enlistment rate among populations  
8           of English learners; and

9                 (C) any other effects that may be identified  
10          by the federally funded research and development  
11          center in the course of the study;

12          (3) an analysis of existing efforts and programs  
13          to remove barriers to entry into the Armed Forces for  
14          English learners, including an analysis of the  
15          scalability and sustainability of such efforts and pro-  
16          grams; and

17          (4) additional opportunities to address such bar-  
18          riers, including alternative assessments and Armed  
19          Services Vocational Aptitude Battery preparation  
20          programs for English learners.

21          (c) *SUBMITTAL TO DEPARTMENT OF DEFENSE.*—Not  
22          later than 270 days after the date of the enactment of this  
23          Act, the federally funded research and development that con-  
24          ducts the study under subsection (a) shall submit to the Sec-  
25          retary of Defense a report on the results of the study.

1       (d) *SUBMITTAL TO CONGRESS.*—Not later than 30  
2 days after the date on which the Secretary of Defense re-  
3 ceives the report under subsection (c), the Secretary shall  
4 submit to the congressional defense committees an unaltered  
5 copy of the report and any comments of the Secretary with  
6 respect to the report.

7       (e) *ENGLISH LEARNER DEFINED.*—In this section, the  
8 term “English learner” has the meaning given that term  
9 in section 8101 of the Elementary and Secondary Edu-  
10 cation Act of 1965 (20 U.S.C. 7801).

11 **SEC. 528. REENLISTMENT WAIVERS FOR PERSONS SEPA-**  
12 **RATED FROM THE ARMED FORCES WHO COM-**  
13 **MIT ONE MISDEMEANOR CANNABIS OFFENSE.**

14       (a) *IN GENERAL.*—Not later than 90 days after the  
15 date of the enactment of this Act, the Secretary of Defense  
16 shall prescribe regulations that permit any Secretary of a  
17 military department to grant a reenlistment waiver to a  
18 covered person if the Secretary determines that the reenlist-  
19 ment of that covered person is vital to the national interest.

20       (b) *DEFINITIONS.*—In this section:

21               (1) The term “covered person” means an indi-  
22 vidual—

23                       (A) who has separated from the Armed  
24 Forces; and

1           (B) who has admitted to or been convicted  
2           by a court of competent jurisdiction of a single  
3           violation—

4                   (i) of any law of a State or the United  
5                   States relating to the use or possession of  
6                   cannabis;

7                   (ii) that constitutes a misdemeanor;  
8                   and

9                   (iii) that occurred while that indi-  
10                  vidual was not on active service in the  
11                  Armed Forces.

12           (2) The terms “active service” and “military de-  
13           partment” have the meanings given such terms in sec-  
14           tion 101 of title 10, United States Code.

15 **SEC. 529. SENSE OF CONGRESS REGARDING ACCESSION**

16                   **PHYSICALS.**

17           (a) *FINDINGS.*—Congress finds the following:

18                   (1) *United States Military Entrance Processing*  
19                   *Command (“USMEPCOM”) operates 65 Military*  
20                   *Entrance Processing Stations (“MEPS”) dispersed*  
21                   *throughout the 50 States and Puerto Rico.*

22                   (2) *Applicants for accession into the Armed*  
23                   *Forces must travel to the closest MEPS to receive*  
24                   *physical examinations, are often driven by a military*

1        *recruiter, and receive lodging at a nearby hotel, paid*  
2        *for by the Armed Force represented by that recruiter.*

3            (3) *In 2015, USMEPCOM reported that 473,000*  
4        *applicants from the military and other agencies proc-*  
5        *essed through the 65 MEPS, for a total of 931,000*  
6        *MEPS visits.*

7            (4) *Section 1703 of title 38, United States Code,*  
8        *authorizes the Secretary of Veterans Affairs to enter*  
9        *into contracts with private health care providers for*  
10       *physical examinations.*

11        (b) *SENSE OF CONGRESS.—It is the sense of Congress*  
12       *that the Secretary of Defense should explore alternatives to*  
13       *centralized accession physicals at MEPS, including con-*  
14       *ducting physicals through community health care providers,*  
15       *in order to reduce transportation costs, increase efficiency*  
16       *in processing times, and free recruiters to focus on the core*  
17       *of the recruiting mission.*

## 18            ***Subtitle D—Military Justice***

### 19        ***SEC. 531. COMMAND INFLUENCE.***

20        (a) *IN GENERAL.—Section 837 of title 10, United*  
21       *States Code (article 37 of the Uniform Code of Military Jus-*  
22       *tice), is amended—*

23            (1) *by striking “**Unlawfully influencing***  
24        ***action of court**” and inserting “**Command in-***  
25        ***fluence**”;*

1           (2) *by amending subsection (a) to read as fol-*  
2       *lows:*

3           “(a)(1) *No court-martial convening authority, nor any*  
4 *other commanding officer, may censure, reprimand, or ad-*  
5 *monish the court or any member, military judge, or counsel*  
6 *thereof, with respect to the findings or sentence adjudged*  
7 *by the court, or with respect to any other exercise of its*  
8 *or his functions in the conduct of the proceeding.*

9           “(2) *No court-martial convening authority, nor any*  
10 *other commanding officer, may deter or attempt to deter*  
11 *a potential witness from participating in the investigatory*  
12 *process or testifying at a court-martial. The denial of a re-*  
13 *quest to travel at government expense or refusal to make*  
14 *a witness available shall not by itself constitute unlawful*  
15 *command influence.*

16           “(3) *No person subject to this chapter may attempt*  
17 *to coerce or, by any unauthorized means, attempt to influ-*  
18 *ence the action of a court-martial or any other military*  
19 *tribunal or any member thereof, in reaching the findings*  
20 *or sentence in any case, or the action of any convening,*  
21 *approving, or reviewing authority or preliminary hearing*  
22 *officer with respect to such acts taken pursuant to this chap-*  
23 *ter as prescribed by the President.*

24           “(4) *Paragraphs (1) through (3) shall not apply with*  
25 *respect to—*

1           “(A) *general instructional or informational*  
2           *courses in military justice if such courses are designed*  
3           *solely for the purpose of instructing members of a*  
4           *command in the substantive and procedural aspects of*  
5           *courts-martial;*

6           “(B) *statements regarding criminal activity or a*  
7           *particular criminal offense that do not advocate a*  
8           *particular disposition, or a particular court-martial*  
9           *finding, or sentence; or*

10           “(C) *statements and instructions given in open*  
11           *court by the military judge or counsel.*

12           “(5)(A) *Notwithstanding paragraphs (1) through (3),*  
13           *but subject to subparagraph (B)—*

14           “(i) *a superior convening authority or officer*  
15           *may generally discuss matters to consider regarding*  
16           *the disposition of alleged violations of this chapter*  
17           *with a subordinate convening authority or officer;*  
18           *and*

19           “(ii) *a subordinate convening authority or offi-*  
20           *cer may seek advice from a superior convening au-*  
21           *thority or officer regarding the disposition of an al-*  
22           *leged offense under this chapter.*

23           “(B) *No superior convening authority or officer may*  
24           *direct a subordinate convening authority or officer to make*  
25           *a particular disposition in a specific case or otherwise sub-*

1 *stitute the discretion of such authority or such officer for*  
2 *that of the subordinate convening authority or officer.”;*

3 *(3) in subsection (b)—*

4 *(A) by striking “advanced, in grade” and*  
5 *inserting “advanced in grade”; and*

6 *(B) by striking “accused before a court-mar-*  
7 *tial” and inserting “person in a court-martial*  
8 *proceeding”; and*

9 *(4) by adding at the end the following new sub-*  
10 *sections:*

11 *“(c) No finding or sentence of a court-martial may be*  
12 *held incorrect on the ground of a violation of this section*  
13 *unless the violation materially prejudices the substantial*  
14 *rights of the accused.*

15 *“(d)(1) A superior convening authority or com-*  
16 *manding officer may withhold the authority of a subordi-*  
17 *nate convening authority or officer to dispose of offenses in*  
18 *individual cases, types of cases, or generally.*

19 *“(2) Except as provided in paragraph (1) or as other-*  
20 *wise authorized by this chapter, a superior convening au-*  
21 *thority or commanding officer may not limit the discretion*  
22 *of a subordinate convening authority or officer to act with*  
23 *respect to a case for which the subordinate convening au-*  
24 *thority or officer has authority to dispose of the offenses.”.*

1           (b) *CLERICAL AMENDMENT.*—*The table of sections at*  
2 *the beginning subchapter VII of chapter 47 of title 10,*  
3 *United States Code (the Uniform Code of Military Justice),*  
4 *is amended by striking the item relating to section 837 (ar-*  
5 *ticle 37) and inserting the following new item:*

“837. Art. 37. Command influence.”

6           (c) *EFFECTIVE DATE.*—*The amendments made by sub-*  
7 *sections (a) and (b) shall take effect on the date of the enact-*  
8 *ment of this Act and shall apply with respect to violations*  
9 *of section 837 of title 10, United States Code (article 37*  
10 *of the Uniform Code of Military Justice), committed on or*  
11 *after such date.*

12 **SEC. 532. STATUTE OF LIMITATIONS FOR CERTAIN OF-**  
13 **FENSES.**

14           (a) *IN GENERAL.*—*Section 843 of title 10, United*  
15 *States Code (article 43 of the Uniform Code of Military Jus-*  
16 *tice), is amended—*

17                   (1) *in subsection (a), by inserting “maiming of*  
18 *a child, kidnapping of a child,” after “sexual assault*  
19 *of a child,”; and*

20                   (2) *in subsection (b)(2)(B)—*

21                           (A) *by striking clauses (ii) and (iv); and*

22                           (B) *by redesignating clause (iii) as clause*  
23 *(ii).*

24           (b) *EFFECTIVE DATE.*—*The amendments made by sub-*  
25 *section (a) shall take effect on the date of the enactment*

1 *of this Act and shall apply with respect to the prosecution*  
2 *of offenses committed before, on, or after the date of the en-*  
3 *actment of this Act if the applicable limitation period has*  
4 *not yet expired.*

5 **SEC. 533. GUIDELINES ON SENTENCES FOR OFFENSES COM-**  
6 **MITTED UNDER THE UNIFORM CODE OF MILI-**  
7 **TARY JUSTICE.**

8 *(a) GUIDELINES REQUIRED.—Not later than the date*  
9 *specified in subsection (c), the Secretary of Defense shall*  
10 *establish nonbinding guidelines on sentences for offenses*  
11 *under chapter 47 of title 10, United States Code (the Uni-*  
12 *form Code of Military Justice). The guidelines shall provide*  
13 *the sentencing authority with a suggested range of punish-*  
14 *ments, including suggested ranges of confinement, that will*  
15 *generally be appropriate for a violation of each offense*  
16 *under such chapter.*

17 *(b) SENTENCING DATA.—In developing the guidelines*  
18 *for sentences under subsection (a), the Secretary of Defense*  
19 *shall take into account the sentencing data collected by the*  
20 *Military Justice Review Panel pursuant to section 946(f)(2)*  
21 *of title 10, United States Code (article 146(f)(2) of the Uni-*  
22 *form Code of Military Justice).*

23 *(c) DATE SPECIFIED.—The date specified in this sub-*  
24 *section is the date that is not later than one year after the*  
25 *date on the which the first report of the Military Justice*

1 *Review Panel is submitted to the Committees on Armed*  
2 *Services of the Senate and the House of Representatives*  
3 *pursuant to section 946(f)(5) of title 10, United States Code*  
4 *(article 146(f)(5) of the Uniform Code of Military Justice).*

5 **SEC. 534. EXPANSION OF RESPONSIBILITIES OF COM-**  
6 **MANDERS FOR VICTIMS OF SEXUAL ASSAULT**  
7 **COMMITTED BY ANOTHER MEMBER OF THE**  
8 **ARMED FORCES.**

9 *(a) NOTIFICATION OF VICTIMS OF EVENTS IN MILI-*  
10 *TARY JUSTICE PROCESS.—*

11 *(1) NOTIFICATION REQUIRED.—The commander*  
12 *of a member of the Armed Forces who is the alleged*  
13 *victim of sexual assault committed by another mem-*  
14 *ber of the Armed Forces shall provide notification to*  
15 *such alleged victim of every key or other significant*  
16 *event in the military justice process in connection*  
17 *with the investigation, prosecution, and confinement*  
18 *of such other member for sexual assault.*

19 *(2) DOCUMENTATION.—Each commander de-*  
20 *scribed in paragraph (1) shall create and maintain*  
21 *appropriate documentation on any notification pro-*  
22 *vided as described in that paragraph.*

23 *(b) DOCUMENTATION OF VICTIM'S PREFERENCE ON JU-*  
24 *RISDICTION IN PROSECUTION.—In the case of a member of*  
25 *the Armed Forces who is the alleged victim of sexual assault*

1 committed by another member of the Armed Forces who is  
2 subject to prosecution for such offense both by court-martial  
3 under chapter 47 of title 10, United States Code (the Uni-  
4 form Code of Military Justice), and by a civilian court  
5 under State law, the commander of such alleged victim shall  
6 create and maintain appropriate documentation of the ex-  
7 pressed preference, if any, of such alleged victim for pros-  
8 ecution of such offense by court-martial or by a civilian  
9 court as provided for by Rule 306(e) of the Rules for Court-  
10 Martial.

11 (c) *REGULATIONS.*—The Secretary of Defense shall  
12 prescribe in regulations the requirements applicable to each  
13 of the following:

14 (1) Notifications under subsection (a)(1).

15 (2) Documentation under subsection (a)(2).

16 (3) Documentation under subsection (b).

17 **SEC. 535. INCREASE IN INVESTIGATIVE PERSONNEL AND**  
18 **VICTIM WITNESS ASSISTANCE PROGRAM LIAI-**  
19 **SONS.**

20 (a) *MILITARY CRIMINAL INVESTIGATIVE SERVICES.*—

21 (1) *MINIMUM STAFFING LEVEL.*—Not later than  
22 one year after the date of the enactment of this Act,  
23 the Secretary of each military department shall en-  
24 sure that the number of personnel assigned to the  
25 military criminal investigative services of the depart-

1 *ment is sufficient to ensure, to the extent practicable,*  
2 *that the investigation of any sex-related offense is*  
3 *completed not later than six months after the date on*  
4 *which the investigation is initiated.*

5 (2) *STATUS REPORTS REQUIRED.—Not later*  
6 *than one year after the date of the enactment of this*  
7 *Act, Secretary of each military department shall issue*  
8 *guidance requiring that any criminal investigator of*  
9 *the department who is assigned to investigate a sex-*  
10 *related offense submits a status report to the direct*  
11 *supervisor of such investigator in the event that the*  
12 *investigation of such offense exceeds 90 days in dura-*  
13 *tion. Each status report shall include—*

14 (A) *a detailed explanation of the status of*  
15 *the investigation;*

16 (B) *identification of any information that*  
17 *has not yet been obtained but is necessary to*  
18 *complete the investigation; and*

19 (C) *identification of any barriers pre-*  
20 *venting the investigator from accessing such in-*  
21 *formation.*

22 (b) *VICTIM WITNESS ASSISTANCE PROGRAM LIAI-*  
23 *SONS.—Not later than one year after the date of the enact-*  
24 *ment of this Act, the Secretary of each military department*  
25 *shall increase the number of personnel serving as Victim*

1 *Witness Assistance Program liaisons to address personnel*  
2 *shortages in the Victim Witness Assistance Program.*

3 **SEC. 536. INCREASE IN NUMBER OF DIGITAL FORENSIC EX-**  
4 **AMINERS FOR THE MILITARY CRIMINAL IN-**  
5 **VESTIGATION ORGANIZATIONS.**

6 (a) *IN GENERAL.*—*Each Secretary of a military de-*  
7 *partment shall take appropriate actions to increase the*  
8 *number of digital forensic examiners in each military*  
9 *criminal investigation organization (MCIO) under the ju-*  
10 *risdiction of such Secretary by not fewer than 10 from the*  
11 *authorized number of such examiners for such organization*  
12 *as of September 30, 2019.*

13 (b) *MILITARY CRIMINAL INVESTIGATION ORGANIZA-*  
14 *TIONS.*—*For purposes of this section, the military criminal*  
15 *investigation organizations are the following:*

16 (1) *The Army Criminal Investigation Command.*

17 (2) *The Naval Criminal Investigative Service.*

18 (3) *The Air Force Office of Special Investiga-*  
19 *tions.*

20 (4) *The Marine Corps. Criminal Investigation*  
21 *Division.*

22 (c) *FUNDING.*—*Funds for additional digital forensic*  
23 *examiners as required by subsection (a) for fiscal year 2020,*  
24 *including for compensation, initial training, and equip-*  
25 *ment, shall be derived from amounts authorized to be appro-*

1 *priated for that fiscal year for the Armed Force concerned*  
2 *for operation and maintenance.*

3 **SEC. 537. PILOT PROGRAMS ON DEFENSE INVESTIGATORS**

4 **IN THE MILITARY JUSTICE SYSTEM.**

5 *(a) IN GENERAL.—Each Secretary of a military de-*  
6 *partment shall carry out a pilot program on defense inves-*  
7 *tigators within the military justice system under the juris-*  
8 *diction of such Secretary in order to do the following:*

9 *(1) Determine whether the presence of defense in-*  
10 *vestigators within such military justice system will—*

11 *(A) make such military justice system more*  
12 *effective in providing an effective defense for the*  
13 *accused; and*

14 *(B) make such military justice system more*  
15 *fair and efficient.*

16 *(2) Otherwise assess the feasibility and advis-*  
17 *ability of defense investigators as an element of such*  
18 *military justice system.*

19 *(b) ELEMENTS.—*

20 *(1) INTERVIEW OF VICTIM.—A defense investi-*  
21 *gator may question a victim under a pilot program*  
22 *only upon a request made through the Special Vic-*  
23 *tims' Counsel or other counsel if the victim does not*  
24 *have such counsel.*

1           (2) *UNIFORMITY ACROSS MILITARY JUSTICE SYS-*  
2           *TEMS.—The Secretary of Defense shall ensure that the*  
3           *personnel and activities of defense investigators under*  
4           *the pilot programs are, to the extent practicable, uni-*  
5           *form across the military justice systems of the mili-*  
6           *tary departments.*

7           (c) *REPORT.—*

8           (1) *IN GENERAL.—Not later than three years*  
9           *after the date of the enactment of this Act, the Sec-*  
10          *retary of Defense shall, in consultation with the Sec-*  
11          *retaries of the military departments, submit to the*  
12          *Committees on Armed Services of the Senate and the*  
13          *House of Representatives a report on the pilot pro-*  
14          *grams under subsection (a).*

15          (2) *ELEMENTS.—The report required by para-*  
16          *graph (1) shall include the following:*

17               (A) *A description of each pilot program, in-*  
18               *cluding the personnel and activities of defense*  
19               *investigators under such pilot program.*

20               (B) *An assessment of the feasibility and ad-*  
21               *visability of establishing and maintaining de-*  
22               *fense investigators as an element of the military*  
23               *justice systems of the military departments.*

24               (C) *If the assessment under subparagraph*  
25               *(B) is that the establishment and maintenance of*

1           *defense investigators as an element of the mili-*  
2           *tary justice systems of the military departments*  
3           *is feasible and advisable, such recommendations*  
4           *for legislative and administrative action as the*  
5           *Secretary of Defense considers appropriate to es-*  
6           *tablish and maintain defense investigators as an*  
7           *element of the military justice systems.*

8                     *(D) Any other matters the Secretary of De-*  
9           *fense considers appropriate.*

10 **SEC. 538. PILOT PROGRAM ON PROSECUTION OF SPECIAL**  
11                     **VICTIM     OFFENSES     COMMITTED     BY**  
12                     **ATTENDEES OF MILITARY SERVICE ACAD-**  
13                     **EMIES.**

14           *(a) PILOT PROGRAM.—Beginning not later than Jan-*  
15           *uary 1, 2020, the Secretary of Defense shall carry out a*  
16           *pilot program (referred to in this section as the “Pilot Pro-*  
17           *gram”)* under which the Secretary shall establish, in ac-  
18           *cordance with this section, an independent authority to—*

19                     *(1) review each covered special victim offense;*  
20           *and*

21                     *(2) determine whether such offense shall be re-*  
22           *ferred to trial by an appropriate court-martial con-*  
23           *vening authority.*

24           *(b) OFFICE OF THE CHIEF PROSECUTOR.—*

1           (1) *ESTABLISHMENT.*—As part of the Pilot Pro-  
2           gram, the Secretary shall establish, within the Office  
3           of the Secretary of Defense, an Office of the Chief  
4           Prosecutor.

5           (2) *HEAD OF OFFICE.*—The head of the Office  
6           shall be known as the Chief Prosecutor. The Secretary  
7           shall appoint as the Chief Prosecutor a commissioned  
8           officer in the grade of O-7 or above who—

9                   (A) has significant experience prosecuting  
10                  sexual assault trials by court-martial; and

11                   (B) is outside the chain of command of any  
12                  cadet or midshipman described in subsection  
13                  (f)(2).

14           (3) *RESPONSIBILITIES.*—The Chief Prosecutor  
15           shall exercise the authorities described in subsection  
16           (c) but only with respect to covered special victim of-  
17           fenses.

18           (4) *SPECIAL RULE.*—Notwithstanding any other  
19           provision of law, the military service from which the  
20           Chief Prosecutor is appointed is authorized an addi-  
21           tional billet for a general officer or a flag officer for  
22           each year in the two year period beginning with the  
23           year in which the appointment is made.

1           (5) *TERMINATION.*—*The Office of the Chief Pros-*  
2           *ecutor shall terminate on the date on which the Pilot*  
3           *Program terminates under subsection (e).*

4           (c) *REFERRAL TO OFFICE OF THE CHIEF PROS-*  
5           *ECUTOR.*—

6           (1) *INVESTIGATION PHASE.*—

7           (A) *NOTICE AND INFORMATION.*—*A mili-*  
8           *tary criminal investigative organization that re-*  
9           *ceives an allegation of a covered special victim*  
10           *offense shall provide to the Chief Prosecutor and*  
11           *the commander of the military service academy*  
12           *concerned—*

13                   (i) *timely notice of such allegation;*

14                   *and*

15                   (ii) *any information and evidence ob-*  
16                   *tained as the result a subsequent investiga-*  
17                   *tion into the allegation.*

18           (B) *TRIAL COUNSEL.*—*A trial counsel as-*  
19           *signed to a case involving a covered special vic-*  
20           *tim offense shall, during the investigative phase*  
21           *of such case, provide the Chief Prosecutor with*  
22           *the information necessary to enable the Chief*  
23           *Prosecutor to make the determination required*  
24           *under paragraph (3).*

1           (2) *REFERRAL TO CHIEF PROSECUTOR.*—*In the*  
2 *case of a charge relating to a covered special victim*  
3 *offense, in addition to referring the charge to the staff*  
4 *judge advocate under subsection (a) or (b) of section*  
5 *834 of title 10, United States Code (article 34 of the*  
6 *Uniform Code of Military Justice), the convening au-*  
7 *thority of the Armed Force of which the accused is a*  
8 *member shall refer, as soon as reasonably practicable,*  
9 *the charge to the Chief Prosecutor to make the deter-*  
10 *mination required by paragraph (3).*

11           (3) *PROSECUTORIAL DETERMINATION.*—*The*  
12 *Chief Prosecutor shall make a determination regard-*  
13 *ing whether a charge relating to a covered special vic-*  
14 *tim offense shall be referred to trial. If the Chief Pros-*  
15 *ecutor makes a determination that the charge shall be*  
16 *tried by court-martial, the Chief Prosecutor also shall*  
17 *determine whether the charge shall be tried by a gen-*  
18 *eral court-martial convened under section 822 of title*  
19 *10, United States Code (article 22 of the Uniform*  
20 *Code of Military Justice) or a special court-martial*  
21 *convened under section 823 of such title (article 23 of*  
22 *the Uniform Code of Military Justice). The deter-*  
23 *mination of whether to try a charge relating to a cov-*  
24 *ered special victim offense by court-martial shall in-*

1 *clude a determination of whether to try any known*  
2 *offenses, including any lesser included offenses.*

3 (4) *EFFECT OF DETERMINATION AND APPEALS*  
4 *PROCESS.—*

5 (A) *DETERMINATION TO PROCEED TO*  
6 *TRIAL.—Subject to subparagraph (C) determina-*  
7 *tion to try a charge relating to a covered special*  
8 *victim offense by court-martial under paragraph*  
9 *(3), and the determination as to the type of*  
10 *court-martial, shall be binding on any convening*  
11 *authority under chapter 47 of title 10, United*  
12 *States Code (the Uniform Code of Military Jus-*  
13 *tice) for a trial by court-martial on the charge.*

14 (B) *DETERMINATION NOT TO PROCEED TO*  
15 *TRIAL.—Subject to subparagraph (C) determina-*  
16 *tion under paragraph (3) not to proceed to trial*  
17 *on a charge relating to a covered special victim*  
18 *offense by general or special court-martial shall*  
19 *be binding on any convening authority under*  
20 *chapter 47 of title 10, United States Code (the*  
21 *Uniform Code of Military Justice) except that*  
22 *such determination shall not operate to termi-*  
23 *nate or otherwise alter the authority of the con-*  
24 *vening authority—*

1                   (i) to proceed to trial by court-martial  
2                   on charges of collateral misconduct related  
3                   to the special victim offense; or

4                   (ii) to impose non-judicial punishment  
5                   in connection with the conduct covered by  
6                   the charge as authorized by section 815 of  
7                   such title (article 15 of the Uniform Code of  
8                   Military Justice).

9                   (C) *APPEAL*.—In a case in which a con-  
10                  vening authority and the staff judge advocate ad-  
11                  vising such authority disagree with the deter-  
12                  mination of the Chief Prosecutor under para-  
13                  graph (3), the convening authority and staff  
14                  judge advocate may jointly appeal the deter-  
15                  mination to the General Counsel of the Depart-  
16                  ment of Defense. The determination of the Gen-  
17                  eral Counsel with respect to such appeal shall be  
18                  binding on the Chief Prosecutor and the con-  
19                  vening authority concerned.

20                  (5) *TRIAL BY RANDOMIZED JURY*.—After the  
21                  Chief Prosecutor makes a determination under para-  
22                  graph (3) to proceed to trial on a charge relating to  
23                  a covered special victim offense, the matter shall be  
24                  tried by a court-martial convened within the Armed  
25                  Force of which the accused is a member in accordance

1       with the applicable provisions of chapter 47 of title  
2       10, United States Code (the Uniform Code of Military  
3       Justice) except that, when convening a court-martial  
4       that is a general or special court-martial involving a  
5       covered special victim offense in which the accused  
6       elects a jury trial, the convening authority shall de-  
7       tail members of the Armed Forces as members thereof  
8       at random unless the obtainability of members of the  
9       Armed Forces for such court-martial prevents the con-  
10      vening authority from detailing such members at ran-  
11      dom.

12               (6) *UNLAWFUL INFLUENCE OR COERCION.*—The  
13      actions of the Chief Prosecutor under this subsection  
14      whether or not to try charges by court-martial shall  
15      be free of unlawful or unauthorized influence or coer-  
16      cion.

17               (d) *EFFECT ON OTHER LAW.*—This section shall su-  
18      persede any provision of chapter 47 of title 10, United  
19      States Code (the Uniform Code of Military Justice), that  
20      is inconsistent with this section, but only to the extent of  
21      the inconsistency.

22               (e) *TERMINATION AND TRANSITION.*—

23                   (1) *TERMINATION.*—The authority of the Sec-  
24      retary to carry out the Pilot Program shall terminate

1       *four years after the date on which the Pilot Program*  
2       *is initiated.*

3           (2) *TRANSITION.—The Secretary shall take such*  
4       *actions as are necessary to ensure that, on the date*  
5       *on which the Pilot Program terminates under para-*  
6       *graph (1), any matter referred to the Chief Prosecutor*  
7       *under subsection (c)(2), but with respect to which the*  
8       *Chief Prosecutor has not made a determination under*  
9       *subsection (c)(3), shall be transferred to the appro-*  
10       *priate convening authority for consideration.*

11       (f) *DEFINITIONS.—In this section:*

12           (1) *The term “Armed Force” has the meaning*  
13       *given that term in section 101(a)(4) of title 10,*  
14       *United States Code.*

15           (2) *The term “covered special victim offense”*  
16       *means a special victim offense—*

17           (A) *alleged to have been committed on or*  
18       *after the date of the enactment of this Act by a*  
19       *cadet of the United States Military Academy or*  
20       *the United States Air Force Academy, without*  
21       *regard to the location at which the offense was*  
22       *committed; or*

23           (B) *alleged to have been committed on or*  
24       *after the date of the enactment of this Act by a*  
25       *midshipman of the United States Naval Acad-*

1            *emy, without regard to the location at which the*  
2            *offense was committed.*

3            *(3) The term “Secretary” means the Secretary of*  
4            *Defense.*

5            *(4) The term “special victim offense” means any*  
6            *of the following:*

7                    *(A) An offense under section 917a, 920,*  
8                    *920b, 920c, or 930 of title 10, United States*  
9                    *Code (article 117a, 120, 120b, 120c, or 130 of the*  
10                   *Uniform Code of Military Justice).*

11                   *(B) A conspiracy to commit an offense spec-*  
12                   *ified in subparagraph (A) as punishable under*  
13                   *section 881 of such title (article 81 of the Uni-*  
14                   *form Code of Military Justice).*

15                   *(C) A solicitation to commit an offense*  
16                   *specified in subparagraph (A) as punishable*  
17                   *under section 882 of such title (article 82 of the*  
18                   *Uniform Code of Military Justice).*

19                   *(D) An attempt to commit an offense speci-*  
20                   *fied in subparagraph (A) as punishable under*  
21                   *section 880 of such title (article 80 of the Uni-*  
22                   *form Code of Military Justice).*

1 **SEC. 539. TIMELY DISPOSITION OF NONPROSECUTABLE**  
2 **SEX-RELATED OFFENSES.**

3 (a) *POLICY REQUIRED.*—Not later than 180 days after  
4 the date of the enactment of this Act, the Secretary of De-  
5 fense shall develop and implement a policy to ensure the  
6 timely disposition of nonprosecutable sex-related offenses in  
7 accordance with subsection (b).

8 (b) *ELEMENTS.*—The policy developed under sub-  
9 section (a) shall require the following:

10 (1) Not later than seven days after the date on  
11 which a court-martial convening authority declines to  
12 refer a nonprosecutable sex-related offense for trial by  
13 general or special court-martial under chapter 47 of  
14 title 10, United States Code (the Uniform Code of  
15 Military Justice), the convening authority will for-  
16 ward the investigation to the commander of the ac-  
17 cused.

18 (2) Not later than 90 days after the date on  
19 which the commander of the accused receives the in-  
20 vestigation under paragraph (1)—

21 (A) the commander will determine whether  
22 or not to take other judicial, nonjudicial, or ad-  
23 ministrative action in connection with the con-  
24 duct covered by the investigation, including any  
25 lesser included offenses, as authorized under sec-

1           tion 815 of title 10, United States Code (article  
2           15 of the Uniform Code of Military Justice); and  
3           (B) in a case in which the commander of  
4           the accused decides to take additional action  
5           under subparagraph (A), the commander take  
6           such actions as appropriate.

7           (c) **NONPROSECUTABLE SEX-RELATED OFFENSE DE-**  
8 *FINED.*—*In this section, the term “nonprosecutable sex-re-*  
9 *lated offense” means an alleged sex-related offense (as that*  
10 *term is defined in section 1044e(g) of title 10, United States*  
11 *Code) that a court-martial convening authority has de-*  
12 *clined to refer for trial by a general or special court-martial*  
13 *under chapter 47 of title 10, United States Code (the Uni-*  
14 *form Code of Military Justice) due to a determination that*  
15 *there is insufficient evidence to support prosecution of the*  
16 *sex-related offense.*

17 **SEC. 540. TRAINING FOR SEXUAL ASSAULT INITIAL DIS-**  
18 **POSITION AUTHORITIES ON EXERCISE OF**  
19 **DISPOSITION AUTHORITY FOR SEXUAL AS-**  
20 **SAULT AND COLLATERAL OFFENSES.**

21           (a) *IN GENERAL.*—*The training for sexual assault ini-*  
22 *tial Disposition authorities on the exercise of disposition*  
23 *authority under chapter 47 of title 10, United States Code*  
24 *(the Uniform Code of Military Justice), with respect to*  
25 *cases for which disposition authority is withheld to such*

1 *authorities by the April 20, 2012, memorandum of the Sec-*  
2 *retary of Defense, or any successor memorandum, shall in-*  
3 *clude comprehensive training on the exercise by such au-*  
4 *thorities of such authority with respect to such cases in*  
5 *order to enhance the capabilities of such Authorities in the*  
6 *exercise of such authority and thereby promote confidence*  
7 *and trust in the military justice process with respect to such*  
8 *cases.*

9       **(b) MEMORANDUM OF SECRETARY OF DEFENSE.**—*The*  
10 *April 20, 2012, memorandum of the Secretary of Defense*  
11 *referred to in subsection (a) is the memorandum of the Sec-*  
12 *retary of Defense entitled “Withholding Initial Disposition*  
13 *Authority Under the Uniform Code of Military Justice in*  
14 *Certain Sexual Assault Cases” and dated April 20, 2012.*

15       **Subtitle E—Other Legal Matters**

16 **SEC. 541. STANDARD OF EVIDENCE APPLICABLE TO INVES-**  
17 **TIGATIONS AND REVIEWS RELATED TO PRO-**  
18 **TECTED COMMUNICATIONS OF MEMBERS OF**  
19 **THE ARMED FORCES AND PROHIBITED RE-**  
20 **TALIATORY ACTIONS.**

21       **(a) STANDARD OF EVIDENCE.**—*Section 1034 of title*  
22 *10, United States Code, is amended—*

23               **(1)** *in subsection (b)(1)(B)(ii), by striking “as*  
24 *defined in subsection (i)” and inserting “as defined*  
25 *in subsection (k)”;*



1           (2) by striking “alleged sex-related offense” each  
2           place it appears and inserting “alleged sex-related of-  
3           fense or alleged domestic violence offense”;

4           (3) in subsection (a)—

5                 (A) in paragraph (1), by striking “an indi-  
6                 vidual described in paragraph (2)” and insert-  
7                 ing “an individual described in paragraph (3)”;

8                 (B) by redesignating paragraph (2) as  
9                 paragraph (3); and

10                (C) by inserting after paragraph (1) the fol-  
11                lowing new paragraph (2):

12           “(2) The Secretary concerned shall designate para-  
13           legals (to be known as ‘Special Victims’ Counsel Para-  
14           legals’) for the purpose of providing paralegal assistance to  
15           Special Victims’ Counsel.”;

16           (4) in subsection (b)(2), by inserting “or the  
17           Family Advocacy Program” after “Victim Witness  
18           Assistance Program”;

19           (5) in subsection (d)(2)—

20                 (A) in subparagraph (A)—

21                         (i) by striking “Special Victims’ Coun-  
22                         sel” and inserting “Special Victims’ Coun-  
23                         sel and a Special Victims’ Counsel Para-  
24                         legal”; and

25                         (ii) by striking “and” at the end;

1           (B) in subparagraph (B), by striking “Spe-  
2           cial Victims’ Counsel.” and inserting “and a  
3           Special Victims’ Counsel Paralegal; and”;

4           (C) by adding at the end the following new  
5           subparagraph:

6           “(C) ensure that a Special Victims’ Counsel re-  
7           ceives the training necessary to meet the needs of a  
8           victim of an alleged sex-related offense or an alleged  
9           domestic violence offense.”;

10          (6) in subsection (f)(1), by inserting “a rep-  
11          resentative of the Family Advocacy Program,” after  
12          “Sexual Assault Victim Advocate,”;

13          (7) by amending subsection (g) to read as fol-  
14          lows:

15          “(g) DEFINITIONS.—In this section:

16          “(1) The term ‘alleged sex-related offense’ means  
17          any allegation of—

18                 “(A) a violation of section 920, 920b, 920c,  
19                 or 930 of this title (article 120, 120b, 120c, or  
20                 130 of the Uniform Code of Military Justice); or

21                 “(B) an attempt to commit an offense speci-  
22                 fied in a subparagraph (A) as punishable under  
23                 section 880 of this title (article 80 of the Uni-  
24                 form Code of Military Justice).

1           “(2) *The term ‘alleged domestic violence offense’*  
2           *means any allegation of—*

3                   “(A) *a violation of section 928b of this title*  
4                   *(article 128b of the Uniform Code of Military*  
5                   *Justice); or*

6                   “(B) *an attempt to commit such an offense*  
7                   *as punishable under section 880 of this title (ar-*  
8                   *ticle 80 of the Uniform Code of Military Jus-*  
9                   *tice).”;* and

10           (8) *by adding at the end the following new sub-*  
11           *sections:*

12           “(i) *MINIMUM STAFFING LEVEL.—Not later than two*  
13           *years after the date of enactment of this subsection, the Sec-*  
14           *retaries concerned shall ensure that the number Special Vic-*  
15           *tims’ Counsel serving in each military department is suffi-*  
16           *cient to ensure that the average caseload of a Special Vic-*  
17           *tims’ Counsel does not exceed 25 cases at any given time.*

18           “(j) *REPORT REQUIRED.—Not later than December 1,*  
19           *2022, the Secretary of Defense, in consultation with the Sec-*  
20           *retaries concerned, shall submit to the Committees on*  
21           *Armed Services of the Senate and the House of Representa-*  
22           *tives a report that includes—*

23                   “(1) *an analysis of the caseloads of Special Vic-*  
24                   *tims’ Counsel and Special Victims’ Counsel Para-*  
25                   *legals, respectively;*

1           “(2) an assessment of the ability of the military  
2 departments to fill additional authorized billets for  
3 the Special Victims’ Counsel program to meet mission  
4 requirements; and

5           “(3) a description of how the training require-  
6 ments for the Special Victims’ Counsel program have  
7 been expanded to meet the needs of victims of alleged  
8 domestic violence offenses.”.

9           (b) *CLERICAL AMENDMENT.*—The table of sections at  
10 the beginning of chapter 53 of title 10, United States Code,  
11 is amended by striking the item relating to section 1044e  
12 and inserting the following new item:

“1044e. Special Victims’ Counsel for victims of sex-related or domestic violence of-  
fenses.”.

13 **SEC. 543. NOTIFICATION OF ISSUANCE OF MILITARY PRO-**  
14 **TECTIVE ORDER TO CIVILIAN LAW ENFORCE-**  
15 **MENT.**

16           (a) *NOTIFICATION OF ISSUANCE.*—Section 1567a of  
17 title 10, United States Code, is amended—

18           (1) in subsection (a), by striking “and any indi-  
19 vidual involved in the order does not reside on a mili-  
20 tary installation at any time during the duration of  
21 the military protective order, the commander of the  
22 military installation shall notify” and inserting “,  
23 the commander of the unit to which the member is as-

1       *signed shall, not later than seven days after the date*  
2       *of the issuance of the order, notify”;*

3               *(2) by redesignating subsection (b) as subsection*  
4       *(c);*

5               *(3) by inserting after subsection (a) the following*  
6       *new subsection (b);*

7       “*(b) NOTIFICATION IN EVENT OF TRANSFER.—In the*  
8       *event that a member of the armed forces against whom a*  
9       *military protective order is issued is transferred to another*  
10       *unit—*

11               “*(1) not later than the date of the transfer, the*  
12       *commander of the unit from which the member is*  
13       *transferred shall notify the commander of the unit to*  
14       *which the member is transferred of—*

15                       “*(A) the issuance of the protective order;*

16                       *and*

17                       “*(B) the individuals involved in the order;*

18                       *and*

19               “*(2) not later than seven days after receiving the*  
20       *notice under paragraph (1), the commander of the*  
21       *unit to which the member is transferred shall provide*  
22       *notice of the order to the appropriate civilian au-*  
23       *thorities in accordance with subsection (a).”;* and

24               *(4) in subsection (c), as so redesignated, by strik-*  
25       *ing “commander of the military installation” and in-*

1       serting “commander of the unit to which the member  
2       is assigned”.

3       (b) *ANNUAL REPORT REQUIRED.*—Not later than  
4       March 1, 2020, and each year thereafter through 2024, the  
5       Secretary of Defense shall submit to the congressional de-  
6       fense committees a report that identifies—

7               (1) the number of military protective orders  
8       issued in the calendar year preceding the year in  
9       which the report is submitted; and

10              (2) the number of such orders that were reported  
11       to appropriate civilian authorities in accordance with  
12       section 1567a(a) of title 10, United States Code, in  
13       such preceding year.

14       **SEC. 544. CLARIFICATIONS REGARDING SCOPE OF EMPLOY-**  
15                               **MENT AND REEMPLOYMENT RIGHTS OF MEM-**  
16                               **BERS OF THE UNIFORMED SERVICES.**

17       (a) *CLARIFICATION REGARDING DEFINITION OF*  
18       *RIGHTS AND BENEFITS.*—Section 4303(2) of title 38,  
19       United States Code, is amended—

20              (1) by inserting “(A)” before “The term”; and

21              (2) by adding at the end the following new sub-  
22       paragraph:

23              “(B) Any procedural protections or provisions  
24       set forth in this chapter shall also be considered a

1       *right or benefit subject to the protection of this chap-*  
2       *ter.”.*

3       **(b) CLARIFICATION REGARDING RELATION TO OTHER**  
4       **LAW AND PLANS FOR AGREEMENTS.**—*Section 4302 of such*  
5       *title is amended by adding at the end the following:*

6       “(c)(1) *Pursuant to this section and the procedural*  
7       *rights afforded by subchapter III of this chapter, any agree-*  
8       *ment to arbitrate a claim under this chapter is unenforce-*  
9       *able, unless all parties consent to arbitration after a com-*  
10       *plaint on the specific claim has been filed in court or with*  
11       *the Merit Systems Protection Board and all parties know-*  
12       *ingly and voluntarily consent to have that particular claim*  
13       *subjected to arbitration.*

14       “(2) *For purposes of this subsection, consent shall not*  
15       *be considered voluntary when a person is required to agree*  
16       *to arbitrate an action, complaint, or claim alleging a viola-*  
17       *tion of this chapter as a condition of future or continued*  
18       *employment, advancement in employment, or receipt of any*  
19       *right or benefit of employment.”.*

20       **SEC. 545. MILITARY ORDERS REQUIRED FOR TERMINATION**  
21                       **OF LEASES PURSUANT TO THE**  
22                       **SERVICEMEMBERS CIVIL RELIEF ACT.**

23       *Section 305(i) of the Servicemembers Civil Relief Act*  
24       *(50 U.S.C. 3955) is amended—*

1           (1) in paragraph (1), by inserting “(including  
2 orders for separation or retirement)” after “official  
3 military orders”; and

4           (2) by adding at the end the following new para-  
5 graph:

6           “(3) *PERMANENT CHANGE OF STATION.*—The  
7 term ‘permanent change of station’ includes separa-  
8 tion or retirement from military service.”.

9 **SEC. 546. CONSULTATION REGARDING VICTIM’S PREF-**  
10 **ERENCE IN PROSECUTION JURISDICTION.**

11       Section 534(b) of the Carl Levin and Howard P.  
12 “Buck” McKeon National Defense Authorization Act for  
13 Fiscal Year 2015 (Public Law 113–291; 10 U.S.C. 1044e  
14 note) is amended by—

15           (1) redesignating paragraphs (2) through (4) as  
16 paragraphs (3) through (5), respectively; and

17           (2) by inserting after paragraph (1) the fol-  
18 lowing new paragraph (2):

19           “(2) *RECORD OF CONSULTATION AND VICTIM*  
20 *PREFERENCE.*—The Secretary of Defense, acting  
21 through the Under Secretary of Defense for Personnel  
22 and Readiness, shall issue guidance to ensure that the  
23 consultation under paragraph (1) is provided to each  
24 victim of an alleged sex-related offense described in  
25 such paragraph. Such guidance shall require that the

1 following information about each consultation is re-  
2 corded and preserved in written or electronic format:

3 “(A) The time and date of the consultation.

4 “(B) The name of the individual who con-  
5 sulted with the victim.

6 “(C) The result of the consultation, includ-  
7 ing—

8 “(i) whether the victim expressed a  
9 preference under paragraph (1); and

10 “(ii) if the victim expressed a pref-  
11 erence, whether the victim preferred that the  
12 offense be prosecuted by court-martial or in  
13 a civilian court.”.

14 **SEC. 547. EXTENSION AND EXPANSION OF DEFENSE ADVI-**  
15 **SORY COMMITTEE ON INVESTIGATION, PROS-**  
16 **ECUTION, AND DEFENSE OF SEXUAL ASSAULT**  
17 **IN THE ARMED FORCES.**

18 Section 546 of the Carl Levin and Howard P. “Buck”  
19 McKeon National Defense Authorization Act for Fiscal Year  
20 2015 (10 U.S.C. 1561 note) is amended—

21 (1) by amending paragraph (2) of subsection (c)  
22 to read as follows:

23 “(2) **BASIS FOR PROVISION OF ADVICE.**—For  
24 purposes of providing advice to the Secretary pursu-

1 *ant to this subsection, the Advisory Committee*  
2 *shall—*

3 “(A) *review, on an ongoing basis, cases in-*  
4 *volving allegations of sexual misconduct de-*  
5 *scribed in paragraph (1);*

6 “(B) *study the feasibility of incorporating*  
7 *restorative justice models into the Uniform Code*  
8 *of Military Justice; and*

9 “(C) *review Rule for Courts-Martial 1001(c)*  
10 *(as set forth in the Manual for Courts-Martial,*  
11 *2019 edition, or any successor rule) to determine*  
12 *whether, and to what extent, the interpretation of*  
13 *that rule by military courts—*

14 “(i) *limits the ability of sexual assault*  
15 *victims to make statements during*  
16 *presentencing proceedings; and*

17 “(ii) *limits the content of such state-*  
18 *ments.”; and*

19 (2) *in subsection (f)(1), by striking “five years”*  
20 *and inserting “ten years”.*

21 **SEC. 548. DEFENSE ADVISORY COMMITTEE FOR THE PRE-**  
22 **VENTION OF SEXUAL MISCONDUCT.**

23 (a) *ESTABLISHMENT REQUIRED.—*

24 (1) *IN GENERAL.—The Secretary of Defense shall*  
25 *establish and maintain within the Department of De-*

1       *defense an advisory committee to be known as the “De-*  
2       *defense Advisory Committee for the Prevention of Sex-*  
3       *ual Misconduct” (in this section referred to as the*  
4       *“Advisory Committee”).*

5               (2) *DEADLINE FOR ESTABLISHMENT.—The Sec-*  
6       *retary shall establish the Advisory Committee not*  
7       *later than 180 days after the date of the enactment*  
8       *of this Act.*

9       (b) *MEMBERSHIP.—*

10              (1) *IN GENERAL.—The Advisory Committee shall*  
11       *consist of not more than 20 members, appointed by*  
12       *the Secretary from among individuals who have an*  
13       *expertise appropriate for the work of the Advisory*  
14       *Committee, including at least one individual with*  
15       *each expertise as follows:*

16                      (A) *Expertise in the prevention of sexual*  
17                      *assault and behaviors on the sexual assault con-*  
18                      *tinuum of harm.*

19                      (B) *Expertise in the prevention of suicide.*

20                      (C) *Expertise in trauma and trauma symp-*  
21                      *toms.*

22                      (D) *Expertise in the change of culture of*  
23                      *large organizations.*

24                      (E) *Expertise in implementation science.*

1           (2) *BACKGROUND OF INDIVIDUALS.*—*Individuals*  
2 *appointed to the Advisory Committee may include in-*  
3 *dividuals with expertise in sexual assault prevention*  
4 *efforts of institutions of higher education, public*  
5 *health officials, and such other individuals as the Sec-*  
6 *retary considers appropriate.*

7           (3) *PROHIBITION ON MEMBERSHIP OF MEMBERS*  
8 *OF ARMED FORCES ON ACTIVE DUTY.*—*A member of*  
9 *the Armed Forces serving on active duty may not*  
10 *serve as a member of the Advisory Committee.*

11       (c) *DUTIES.*—

12           (1) *IN GENERAL.*—*The Advisory Committee shall*  
13 *advise the Secretary on the following:*

14           (A) *The prevention of sexual assault (in-*  
15 *cluding rape, forcible sodomy, other sexual as-*  
16 *sault, and other sexual misconduct (including be-*  
17 *haviors on the sexual assault continuum of*  
18 *harm)) involving members of the Armed Forces.*

19           (B) *The policies, programs, and practices of*  
20 *each military department, each Armed Force,*  
21 *and each military service academy for the pre-*  
22 *vention of sexual assault as described in sub-*  
23 *paragraph (A).*

24           (2) *BASIS FOR PROVISION OF ADVICE.*—*For pur-*  
25 *poses of providing advice to the Secretary pursuant to*

1        *this subsection, the Advisory Committee shall review,*  
2        *on an ongoing basis, the following:*

3                *(A) Closed cases involving allegations of sex-*  
4                *ual assault described in paragraph (1).*

5                *(B) Efforts of institutions of higher edu-*  
6                *cation to prevent sexual assault among students.*

7                *(C) Any other information or matters that*  
8                *the Advisory Committee or the Secretary con-*  
9                *siders appropriate.*

10              *(3) COORDINATION OF EFFORTS.—In addition to*  
11              *the reviews required by paragraph (2), for purposes*  
12              *of providing advice to the Secretary the Advisory*  
13              *Committee shall also consult and coordinate with the*  
14              *Defense Advisory Committee on Investigation, Pros-*  
15              *ecution, and Defense of Sexual Assault in the Armed*  
16              *Forces (DAC-IPAD) on matters of joint interest to the*  
17              *two Advisory Committees.*

18              *(d) ANNUAL REPORT.—Not later than March 30 each*  
19              *year, the Advisory Committee shall submit to the Secretary*  
20              *and the Committees on Armed Services of the Senate and*  
21              *the House of Representatives a report on the activities of*  
22              *the Advisory Committee pursuant to this section during the*  
23              *preceding year.*

1       (e) *SEXUAL ASSAULT CONTINUUM OF HARM.*—*In this*  
2 *section, the term “sexual assault continuum of harm” in-*  
3 *cludes—*

4           (1) *inappropriate actions (such as sexist jokes),*  
5 *sexual harassment, gender discrimination, hazing,*  
6 *cyber bullying, or other behavior that contributes to*  
7 *a culture that is tolerant of, or increases risk for, sex-*  
8 *ual assault; and*

9           (2) *maltreatment or ostracism of a victim for a*  
10 *report of sexual misconduct.*

11       (f) *TERMINATION.*—

12           (1) *IN GENERAL.*—*Except as provided in para-*  
13 *graph (2), the Advisory Committee shall terminate on*  
14 *the date that is five years after the date of the estab-*  
15 *lishment of the Advisory Committee pursuant to sub-*  
16 *section (a).*

17           (2) *CONTINUATION.*—*The Secretary of Defense*  
18 *may continue the Advisory Committee after the termi-*  
19 *nation date applicable under paragraph (1) if the*  
20 *Secretary determines that continuation of the Advi-*  
21 *sory Committee after that date is advisable and ap-*  
22 *propriate. If the Secretary determines to continue the*  
23 *Advisory Committee after that date, the Secretary*  
24 *shall notify the Committees on the Armed Services of*  
25 *the Senate and House of Representatives.*

1 **SEC. 549. SAFE TO REPORT POLICY APPLICABLE ACROSS**  
2 **THE ARMED FORCES.**

3 (a) *IN GENERAL.*—*The Secretary of Defense shall, in*  
4 *consultation with the Secretaries of the military depart-*  
5 *ments, prescribe in regulations a safe to report policy de-*  
6 *scribed in subsection (b) that applies with respect to all*  
7 *members of the Armed Forces (including members of the re-*  
8 *serve components of the Armed Forces) and cadets and mid-*  
9 *shipmen at the military service academies.*

10 (b) *SAFE TO REPORT POLICY.*—*The safe to report pol-*  
11 *icy described in this subsection is a policy under which a*  
12 *member of the Armed Forces who is the alleged victim of*  
13 *sexual assault, but who may have committed minor collat-*  
14 *eral misconduct at or about the time of such sexual assault,*  
15 *or whose minor collateral misconduct is discovered only as*  
16 *a result of the investigation into such sexual assault, may*  
17 *report such sexual assault to proper authorities without fear*  
18 *or receipt of discipline in connection with such minor col-*  
19 *lateral misconduct absent aggravating circumstances that*  
20 *increase the gravity of the minor collateral misconduct or*  
21 *its impact on good order and discipline.*

22 (c) *MINOR COLLATERAL MISCONDUCT.*—*For purposes*  
23 *of the safe to report policy, minor collateral misconduct*  
24 *shall include any of the following:*

25 (1) *Improper use or possession of alcohol.*

1           (2) *Consensual intimate behavior (including*  
2 *adultery) or fraternization.*

3           (3) *Presence in an off-limits area.*

4           (4) *Such other misconduct as the Secretary of*  
5 *Defense shall specify in the regulations under sub-*  
6 *section (a).*

7           (d) *AGGRAVATING CIRCUMSTANCES.—The regulations*  
8 *under subsection (a) shall specify aggravating cir-*  
9 *cumstances that increase the gravity of minor collateral*  
10 *misconduct or its impact on good order and discipline for*  
11 *purposes of the safe to report policy.*

12           (e) *DEFINITIONS.—In this section:*

13           (1) *The term “Armed Forces” has the meaning*  
14 *given that term in section 101(a)(4) of title 10,*  
15 *United States Code, except such term does not include*  
16 *the Coast Guard.*

17           (2) *The term “military service academy” means*  
18 *the following:*

19                   (A) *The United States Military Academy.*

20                   (B) *The United States Naval Academy.*

21                   (C) *The United States Air Force Academy.*

22 **SEC. 550. AVAILABILITY OF SPECIAL VICTIMS’ COUNSEL**  
23 **AND SPECIAL VICTIM PROSECUTORS AT MILI-**  
24 **TARY INSTALLATIONS.**

25           (a) *DEADLINE FOR AVAILABILITY.—*

1           (1) *IN GENERAL.*—*If an individual specified in*  
2           *paragraph (2) is not available at a military installa-*  
3           *tion for access by a member of the Armed Forces who*  
4           *requests access to such an individual, such an indi-*  
5           *vidual shall be made available at such installation for*  
6           *access by such member by not later than 48 hours*  
7           *after such request.*

8           (2) *INDIVIDUALS.*—*The individuals specified in*  
9           *this paragraph are the following:*

10                   (A) *Special Victims' Counsel (SVC).*

11                   (B) *Special Victim Prosecutor (SPC).*

12           (b) *REPORT ON CIVILIAN SUPPORT OF SVCs.*—*Not*  
13           *later than 180 days after the date of the enactment of this*  
14           *Act, each Secretary of a military department shall submit*  
15           *to the Committees on Armed Services of the Senate and the*  
16           *House of Representatives a report setting forth the assess-*  
17           *ment of such Secretary of the feasibility and advisability*  
18           *of establishing and maintaining at each installation under*  
19           *the jurisdiction of such Secretary with a Special Victims'*  
20           *Counsel one or more civilian positions for the purpose of—*

21                   (1) *providing support to such Special Victims'*  
22                   *Counsel; and*

23                   (2) *ensuring continuity and the preservation of*  
24                   *institutional knowledge in transitions between the*

1       *service of individuals as Special Victims' Counsel at*  
2       *such installation.*

3   **SEC. 550a. NOTICE TO VICTIMS OF ALLEGED SEXUAL AS-**  
4                   **SAULT OF PENDENCY OF FURTHER ADMINIS-**  
5                   **TRATIVE ACTION FOLLOWING A DETERMINA-**  
6                   **TION NOT TO REFER TO TRIAL BY COURT-**  
7                   **MARTIAL.**

8       *Under regulations prescribed by the Secretary of De-*  
9       *fense, upon a determination not to refer a case of alleged*  
10      *sexual assault for trial by court-martial under chapter 47*  
11      *of title 10, United States Code (the Uniform Code of Mili-*  
12      *tary Justice), the commander making such determination*  
13      *shall periodically notify the victim of the status of a final*  
14      *determination on further action on such case, whether non-*  
15      *judicial punishment under section 815 of such title (article*  
16      *15 of the Uniform Code of Military Justice), other adminis-*  
17      *trative action, or no further action. Such notifications shall*  
18      *continue not less frequently than monthly until such final*  
19      *determination.*

20   **SEC. 550b. TRAINING FOR SPECIAL VICTIMS' COUNSEL ON**  
21                   **CIVILIAN CRIMINAL JUSTICE MATTERS IN**  
22                   **THE STATES OF THE MILITARY INSTALLA-**  
23                   **TIONS TO WHICH ASSIGNED.**

24       *(a) TRAINING.—*

1           (1) *IN GENERAL.*—*Except as provided in sub-*  
2 *section (c), upon the assignment of a Special Victims’*  
3 *Counsel (including a Victim Legal Counsel of the*  
4 *Navy) to a military installation in the United States,*  
5 *such Counsel shall be provided appropriate training*  
6 *on the law and policies of the State or States in*  
7 *which such military installation is located with re-*  
8 *spect to the criminal justice matters specified in*  
9 *paragraph (2). The purpose of the training is to as-*  
10 *assist such Counsel in providing victims of alleged sex-*  
11 *related offenses with information necessary to make*  
12 *an informed decision regarding preference as to the*  
13 *jurisdiction (whether court-martial or State court) in*  
14 *which such offenses will be prosecuted.*

15           (2) *CRIMINAL JUSTICE MATTERS.*—*The criminal*  
16 *justice matters specified in this paragraph, with re-*  
17 *spect to a State, are the following:*

18                   (A) *Victim rights.*

19                   (B) *Prosecution of criminal offenses.*

20                   (C) *Sentencing for conviction of criminal*  
21 *offenses.*

22           (b) *ALLEGED SEX-RELATED OFFENSE DEFINED.*—*In*  
23 *this section, the term “alleged sex-related offense” means*  
24 *any allegation of—*

1           (1) a violation of section 920, 920b, 920c, or 930  
2 of title 10, United States Code (article 120, 120b,  
3 120c, or 130 of the Uniform Code of Military Jus-  
4 tice); or

5           (2) an attempt to commit an offense specified in  
6 a paragraph (1) as punishable under section 880 of  
7 title 10, United States Code (article 80 of the Uni-  
8 form Code of Military Justice).

9           (c) *EXCEPTION.*—The requirements of this section do  
10 not apply to a Special Victims’ Counsel of the Coast Guard.

## 11           ***Subtitle F—Member Education***

### 12           ***SEC. 551. AUTHORITY FOR DETAIL OF CERTAIN ENLISTED*** 13                           ***MEMBERS OF THE ARMED FORCES AS STU-*** 14                           ***DENTS AT LAW SCHOOLS.***

15           (a) *IN GENERAL.*—Chapter 101 of title 10, United  
16 States Code, is amended—

17                   (1) by redesignating sections 2004a and 2004b  
18 as sections 2004b and 2004c, respectively;

19                   (2) by inserting after section 2004 the following  
20 new section:

#### 21           ***“§ 2004a. Detail as students at law schools: certain en-*** 22                           ***listed members***

23                   “(a) *IN GENERAL.*—The Secretary of each military de-  
24 partment may, under regulations prescribed by the Sec-  
25 retary of Defense, detail enlisted members of the armed

1 *forces as students at accredited law schools, located in the*  
2 *United States, for a period of training leading to the degree*  
3 *of bachelor of laws or juris doctor. No more than twenty-*  
4 *five officers from each military department may commence*  
5 *such training in any single fiscal year.*

6       “(b) *ELIGIBILITY FOR DETAIL.—To be eligible for de-*  
7 *tail under subsection (a), a member must be a citizen of*  
8 *the United States and must—*

9               “(1) *as of the time training is to begin—*

10                       “(A) *have served on active duty for a period*  
11 *of not less than four years nor more than eight*  
12 *years;*

13                       “(B) *be in pay grade E–5 or E–6; and*

14                       “(C) *meet all requirements for acceptance of*  
15 *a commission as a commissioned officer in the*  
16 *armed forces; and*

17               “(2) *sign an agreement that, unless sooner sepa-*  
18 *rated, the member will—*

19                       “(A) *complete the educational course of*  
20 *legal training;*

21                       “(B) *upon completion of the educational*  
22 *course of legal training—*

23                       “(i) *accept a commission as a commis-*  
24 *sioned officer in the armed forces; and*

1                   “(ii) accept transfer or detail as a  
2                   judge advocate or law specialist within the  
3                   department concerned; and

4                   “(C) agree to serve on active duty following  
5                   completion or other termination of the edu-  
6                   cational course of legal training for a period of  
7                   two years for each year or part thereof of such  
8                   training.

9                   “(c) *SELECTION*.—Members detailed for legal training  
10                  under subsection (a) shall be selected on a competitive basis  
11                  by the Secretary of the military department concerned,  
12                  under the regulations required by subsection (a).

13                  “(d) *SERVICE AND SERVICE OBLIGATIONS*.—(1) *Ex-*  
14                  cept as provided in paragraph (2), any service obligation  
15                  incurred by a member under an agreement entered into  
16                  under subsection (b) shall be in addition to any service obli-  
17                  gation incurred by the member under any other provision  
18                  of law or agreement.

19                  “(2)(A) A member who does not successfully complete  
20                  a course of legal training to which detailed pursuant to this  
21                  section shall cease such detail and return to the armed force  
22                  concerned as an enlisted member.

23                  “(B) Any time of a member described by subparagraph  
24                  (A) in a course of legal training described in that subpara-  
25                  graph shall not count toward satisfaction of any period of

1 *service required under the current contract or agreement of*  
2 *the member for enlistment in the armed forces.*

3 “(e) *LIMITATION ON NUMBER DETAILABLE.*—*The ag-*  
4 *gregate number of enlisted members detailed under this sec-*  
5 *tion and commissioned officers detailed under section 2004*  
6 *of this title in any fiscal year by a Secretary of a military*  
7 *department may not exceed 25.*

8 “(f) *OTHER ADMINISTRATIVE MATTERS.*—*Subsections*  
9 *(d) and (f) of section 2004 of this title shall apply to the*  
10 *detail of members under this section, except that any ref-*  
11 *erence in such section to an ‘officer’ shall be deemed to be*  
12 *a reference to an ‘enlisted member’ for such purposes.”.*

13 **SEC. 552. EDUCATION OF MEMBERS OF THE ARMED FORCES**  
14 **ON CAREER READINESS AND PROFESSIONAL**  
15 **DEVELOPMENT.**

16 (a) *PROGRAMS OF EDUCATION REQUIRED.*—

17 (1) *IN GENERAL.*—*Chapter 101 of title 10,*  
18 *United States Code, is amended by inserting after sec-*  
19 *tion 2015 the following new section:*

20 **“§2015a. Education of members on career readiness**  
21 **and professional development**

22 “(a) *PROGRAM OF EDUCATION REQUIRED.*—*The Sec-*  
23 *retary of Defense shall carry out a program to provide edu-*  
24 *cation on career readiness and professional development to*  
25 *members of the armed forces.*

1       “(b) *ELEMENTS.*—*The program under this section*  
2 *shall provide members with the following:*

3               “(1) *Information on the transition plan as de-*  
4 *scribed in section 1142(b)(10) of this title.*

5               “(2) *Information on opportunities available to*  
6 *members during military service for professional de-*  
7 *velopment and preparation for a career after military*  
8 *service, including—*

9                       “(A) *programs of education, certification,*  
10 *training, and employment assistance (including*  
11 *programs under sections 1143(e), 2007, and 2015*  
12 *of this title); and*

13                       “(B) *programs and resources available to*  
14 *members in communities in the vicinity of mili-*  
15 *tary installations.*

16               “(3) *Instruction on the use of online and other*  
17 *electronic mechanisms in order to access the edu-*  
18 *cation, training, and assistance and resources de-*  
19 *scribed in paragraph (2).*

20               “(4) *Such other information, instruction, and*  
21 *matters as the Secretary shall specify for purposes of*  
22 *this section.*

23       “(c) *TIMING OF PROVISION OF INFORMATION.*—*Subject*  
24 *to subsection (d), information, instruction, and other mat-*

1 *ters under the program under this section shall be provided*  
2 *to members at the times as follows:*

3           “(1) *Upon arrival at first duty station.*

4           “(2) *Upon arrival at any subsequent duty sta-*  
5 *tion.*

6           “(3) *Upon deployment.*

7           “(4) *Upon promotion.*

8           “(5) *Upon reenlistment.*

9           “(6) *At any other point in a military career*  
10 *specified by the Secretary for purposes of this section*

11       “(d) *SINGLE PROVISION OF INFORMATION IN A YEAR*  
12 *WITH MULTIPLE EVENTS.—A member who has received in-*  
13 *formation and instruction under the program under this*  
14 *section in connection with an event specified in subsection*  
15 *(c) in a year may elect not to undergo additional receipt*  
16 *of information and instruction under the program in con-*  
17 *nection with another such event in the year, unless such*  
18 *other event is arrival at a new duty station.”.*

19           (2) *CLERICAL AMENDMENT.—The table of sec-*  
20 *tions at the beginning of chapter 101 of such title is*  
21 *amended by inserting after the item relating to sec-*  
22 *tion 2015 the following new item:*

      “2015a. *Education of members on career readiness and professional develop-*  
          *ment.”.*

23       (b) *REPORT ON IMPLEMENTATION.—*

1           (1) *IN GENERAL.*—Not later than one year after  
2           the date of the enactment of this Act, the Secretary of  
3           Defense shall submit to the appropriate committees of  
4           Congress a report on the program of education re-  
5           quired by section 2015a of title 10, United States  
6           Code (as added by subsection (a)), including the fol-  
7           lowing:

8                   (A) *A comprehensive description of the ac-*  
9                   *tions taken to implement the program of edu-*  
10                  *cation.*

11                  (B) *A comprehensive description of the pro-*  
12                  *gram of education.*

13           (2) *APPROPRIATE COMMITTEES OF CONGRESS*  
14           *DEFINED.*—In this subsection, the term “appropriate  
15           committees of Congress” means—

16                   (A) *the Committee on Armed Services and*  
17                   *the Committee on Veterans’ Affairs of the Senate;*  
18                   *and*

19                   (B) *the Committee on Armed Services and*  
20                   *the Committee on Veterans’ Affairs of the House*  
21                   *of Representatives.*

22 **SEC. 553. DEFENSE LANGUAGE INSTITUTE FOREIGN LAN-**  
23 **GUAGE CENTER.**

24           (a) *AUTHORITY TO AWARD BACHELOR’S DEGREES.*—  
25           Section 2168 of title 10, United States Code, is amended—

1           (1) *in the section heading, by striking “**Asso-***  
 2           *ciate” and inserting “**Associate or Bachelor**”;*  
 3           *and*

4           (2) *by amending subsection (a) to read as fol-*  
 5           *lows:*

6           “(a) *Subject to subsection (b), the Commandant of the*  
 7           *Defense Language Institute may confer—*

8                     “(1) *an Associate of Arts degree in a foreign lan-*  
 9                     *guage upon any graduate of the Foreign Language*  
 10                    *Center of the Institute who fulfills the requirements*  
 11                    *for that degree; or*

12                   “(2) *a Bachelor of Arts degree in a foreign lan-*  
 13                    *guage upon any graduate of the Foreign Language*  
 14                    *Center of the Institute who fulfills the requirements*  
 15                    *for that degree.”.*

16           (b) *CLERICAL AMENDMENT.—The table of sections at*  
 17           *the beginning of chapter 108 of title 10, United States Code,*  
 18           *is amended by striking the item relating to section 2168*  
 19           *and inserting the following new item:*

                  “2168. *Defense Language Institute Foreign Language Center: degree of Associate*  
                   *or Bachelor of Arts in foreign language.”.*

20   **SEC. 554. EXPANSION OF DEPARTMENT OF DEFENSE**  
 21                    **STARBASE PROGRAM.**

22           (a) *IN GENERAL.—Section 2193b of title 10, United*  
 23           *States Code, is amended—*

1           (1) *in the section heading, by striking*  
 2           “**science, mathematics, and technology**”  
 3           *and inserting “**science, technology, engineer-***  
 4           ***ing, art and design, and mathematics*”;**

5           (2) *in subsection (a), by striking “science, math-*  
 6           *ematics, and technology” and inserting “science, tech-*  
 7           *nology, engineering, art and design, and mathe-*  
 8           *matics”;* *and*

9           (3) *in subsection (b), by striking “mathematics,*  
 10          *science, and technology” and inserting “science, tech-*  
 11          *nology, engineering, art and design, and mathe-*  
 12          *matics”;*

13          (b) *CLERICAL AMENDMENT.—The table of sections at*  
 14          *the beginning of chapter 111 of title 10, United States Code,*  
 15          *is amended by striking the item relating to section 2193b*  
 16          *and inserting the following new item:*

*“2193b. Improvement of education in technical fields: program for support of ele-  
 mentary and secondary education in science, technology, engi-  
 neering, art and design, and mathematics.”.*

17 **SEC. 555. DEGREE GRANTING AUTHORITY FOR UNITED**  
 18                                   **STATES ARMY ARMAMENT GRADUATE**  
 19                                   **SCHOOL.**

20          (a) *IN GENERAL.—Chapter 751 of title 10, United*  
 21          *States Code, is amended by adding at the end the following*  
 22          *new section:*

1 **“§ 7422. Degree granting authority for United States**

2 **Army Armament Graduate School**

3 “(a) *AUTHORITY.*—Under regulations prescribed by  
4 the Secretary of the Army, the Chancellor of the United  
5 States Army Armament Graduate School may, upon the  
6 recommendation of the faculty and provost of the college,  
7 confer appropriate degrees upon graduates who meet the de-  
8 gree requirements.

9 “(b) *LIMITATION.*—A degree may not be conferred  
10 under this section unless—

11 “(1) the Secretary of Education has rec-  
12 ommended approval of the degree in accordance with  
13 the Federal Policy Governing Granting of Academic  
14 Degrees by Federal Agencies; and

15 “(2) the United States Army Armament Grad-  
16 uate School is accredited by the appropriate civilian  
17 academic accrediting agency or organization to  
18 award the degree, as determined by the Secretary of  
19 Education.

20 “(c) *CONGRESSIONAL NOTIFICATION REQUIRE-*  
21 *MENTS.*—(1) When seeking to establish degree granting au-  
22 thority under this section, the Secretary of Defense shall  
23 submit to the Committees on Armed Services of the Senate  
24 and the House of Representatives—

25 “(A) a copy of the self-assessment questionnaire  
26 required by the Federal Policy Governing Granting of

1 *Academic Degrees by Federal Agencies, at the time*  
2 *the assessment is submitted to the Department of*  
3 *Education's National Advisory Committee on Institu-*  
4 *tional Quality and Integrity; and*

5 *“(B) the subsequent recommendations and ra-*  
6 *tionale of the Secretary of Education regarding the*  
7 *establishment of the degree granting authority.*

8 *“(2) Upon any modification or redesignation of exist-*  
9 *ing degree granting authority, the Secretary of Defense shall*  
10 *submit to the Committees on Armed Services of the Senate*  
11 *and House of Representatives a report containing the ra-*  
12 *tionale for the proposed modification or redesignation and*  
13 *any subsequent recommendation of the Secretary of Edu-*  
14 *cation on the proposed modification or redesignation.*

15 *“(3) The Secretary of Defense shall submit to the Com-*  
16 *mittees on Armed Services of the Senate and House of Rep-*  
17 *resentatives a report containing an explanation of any ac-*  
18 *tion by the appropriate academic accrediting agency or or-*  
19 *ganization not to accredit the United States Army Arma-*  
20 *ment Graduate School to award any new or existing de-*  
21 *gree.”.*

22 *(b) CLERICAL AMENDMENT.—The table of sections at*  
23 *the beginning of such chapter is amended by adding at the*  
24 *end the following new item:*

*“7422. Degree granting authority for United States Army Armament Graduate School.”.*

1 **SEC. 556. CONGRESSIONAL NOMINATIONS FOR SENIOR RE-**  
2 **SERVE OFFICERS' TRAINING CORPS SCHOL-**  
3 **ARSHIPS.**

4 *Section 7442 of title 10, United States Code, is amend-*  
5 *ed by adding at the end the following new subsection:*

6 *“(k) Any candidate not nominated under paragraphs*  
7 *(3) through (10) of subsection (a) may be considered by the*  
8 *Secretary of the Army in order of merit for appointment*  
9 *as a Senior Reserve Officers' Training Corps cadet under*  
10 *section 2107 of this title.”.*

11 **SEC. 557. CONSIDERATION OF APPLICATION FOR TRANS-**  
12 **FER FOR A STUDENT OF A MILITARY SERVICE**  
13 **ACADEMY WHO IS THE VICTIM OF A SEXUAL**  
14 **ASSAULT OR RELATED OFFENSE.**

15 *(a) MILITARY ACADEMY.—Section 7461 of title 10,*  
16 *United States Code, is amended by adding at the end the*  
17 *following new subsection:*

18 *“(e) CONSIDERATION OF APPLICATION FOR TRANSFER*  
19 *FOR A CADET WHO IS THE VICTIM OF A SEXUAL ASSAULT*  
20 *OR RELATED OFFENSE.—(1) The Secretary of the Army*  
21 *shall provide for timely determination and action on an*  
22 *application for consideration of a transfer to another mili-*  
23 *tary service academy submitted by a cadet who was a vic-*  
24 *tim of a sexual assault or other offense covered by section*  
25 *920, 920a, or 920c of this title (article 120, 120a, or 120c*  
26 *of the Uniform Code of Military Justice) so as to reduce*

1 *the possibility of retaliation against the cadet for reporting*  
2 *the sexual assault or other offense.*

3       “(2) *The Secretary of the Army shall prescribe regula-*  
4 *tions to carry out this subsection, within guidelines pro-*  
5 *vided by the Secretary of Defense that direct the Super-*  
6 *intendent of the Military Academy, in coordination with*  
7 *the Superintendent of the military service academy to*  
8 *which the cadet wishes to transfer—*

9               “(A) *to approve or deny an application under*  
10 *this subsection not later than 72 hours after the sub-*  
11 *mission of the application; and*

12               “(B) *to approve such application unless there*  
13 *are exceptional circumstances that require denial of*  
14 *the application.*

15       “(3) *If the Superintendent of the Military Academy*  
16 *or the Superintendent of the military service academy to*  
17 *which the cadet wishes to transfer denies an application*  
18 *under this subsection, the cadet may request review of the*  
19 *denial by the Secretary concerned, who shall grant or deny*  
20 *review not later than 72 hours after submission of the re-*  
21 *quest for review.*

22       “(4) *The Secretary concerned shall ensure that all*  
23 *records of any request, determination, or action under this*  
24 *subsection remain confidential.*

1       “(5) *A cadet who transfers under this subsection may*  
2 *retain the cadet’s appointment to the Military Academy or*  
3 *may be appointed to the military service academy to which*  
4 *the cadet transfers without regard to the limitations and*  
5 *requirements set forth in sections 7442, 8454, and 9442 of*  
6 *this title.*”.

7       (b) *NAVAL ACADEMY.—Section 8480 of title 10, United*  
8 *States Code, is amended by adding at the end the following*  
9 *new subsection:*

10       “(e) *CONSIDERATION OF APPLICATION FOR TRANSFER*  
11 *FOR A MIDSHIPMAN WHO IS THE VICTIM OF A SEXUAL AS-*  
12 *SAULT OR RELATED OFFENSE.—(1) The Secretary of the*  
13 *Navy shall provide for timely determination and action on*  
14 *an application for consideration of a transfer to another*  
15 *military service academy submitted by a midshipman who*  
16 *was a victim of a sexual assault or other offense covered*  
17 *by section 920, 920a, or 920c of this title (article 120, 120a,*  
18 *or 120c of the Uniform Code of Military Justice) so as to*  
19 *reduce the possibility of retaliation against the midshipman*  
20 *for reporting the sexual assault or other offense.*

21       “(2) *The Secretary of the Navy shall prescribe regula-*  
22 *tions to carry out this subsection, within guidelines pro-*  
23 *vided by the Secretary of Defense that direct the Super-*  
24 *intendent of the Naval Academy, in coordination with the*

1 *Superintendent of the military service academy to which*  
2 *the midshipman wishes to transfer—*

3           “(A) *to approve or deny an application under*  
4 *this subsection not later than 72 hours after the sub-*  
5 *mission of the application; and*

6           “(B) *to approve such application unless there*  
7 *are exceptional circumstances that require denial of*  
8 *the application.*

9           “(3) *If the Superintendent of the Naval Academy or*  
10 *the Superintendent of the military service academy to*  
11 *which the midshipman wishes to transfer denies an applica-*  
12 *tion under this subsection, the midshipman may request re-*  
13 *view of the denial by the Secretary concerned, who shall*  
14 *grant or deny review not later than 72 hours after submis-*  
15 *sion of the request for review.*

16           “(4) *The Secretary concerned shall ensure that all*  
17 *records of any request, determination, or action under this*  
18 *subsection remain confidential.*

19           “(5) *A midshipman who transfers under this sub-*  
20 *section may retain the midshipman’s appointment to the*  
21 *Naval Academy or may be appointed to the military service*  
22 *academy to which the midshipman transfers without regard*  
23 *to the limitations and requirements set forth in sections*  
24 *7442, 8454, and 9442 of this title.”.*

1           (c) *AIR FORCE ACADEMY*.—Section 9461 of title 10,  
2 *United States Code*, is amended by adding at the end the  
3 *following new subsection*:

4           “(e) *CONSIDERATION OF APPLICATION FOR TRANSFER*  
5 *FOR A CADET WHO IS THE VICTIM OF A SEXUAL ASSAULT*  
6 *OR RELATED OFFENSE*.—(1) *The Secretary of the Air Force*  
7 *shall provide for timely determination and action on an*  
8 *application for consideration of a transfer to another mili-*  
9 *tary service academy submitted by a cadet who was a vic-*  
10 *tim of a sexual assault or other offense covered by section*  
11 *920, 920a, or 920c of this title (article 120, 120a, or 120c*  
12 *of the Uniform Code of Military Justice) so as to reduce*  
13 *the possibility of retaliation against the cadet for reporting*  
14 *the sexual assault or other offense.*

15           “(2) *The Secretary of the Air Force shall prescribe reg-*  
16 *ulations to carry out this subsection, within guidelines pro-*  
17 *vided by the Secretary of Defense that direct the Super-*  
18 *intendent of the Air Force Academy, in coordination with*  
19 *the Superintendent of the military service academy to*  
20 *which the cadet wishes to transfer—*

21                   “(A) *to approve or deny an application under*  
22 *this subsection not later than 72 hours after the sub-*  
23 *mission of the application; and*





1        *nity College of the Air Force affiliated joint-service*  
2        *training and education courses.”.*

3        **SEC. 560. SAFE-TO-REPORT POLICY APPLICABLE TO MILI-**  
4        **TARY SERVICE ACADEMIES.**

5        *(a) IN GENERAL.—The Secretary of Defense, in con-*  
6        *sultation with the Secretaries of the military departments,*  
7        *shall prescribe in regulations a safe-to-report policy de-*  
8        *scribed in subsection (b) that applies with respect to cadets*  
9        *and midshipmen at the military service academies.*

10        *(b) SAFE-TO-REPORT POLICY.—The safe-to-report pol-*  
11        *icy described in this subsection is a policy under which a*  
12        *cadet or midshipman at a military service academy who*  
13        *is the alleged victim of sexual assault, but who may have*  
14        *committed minor collateral misconduct at or about the time*  
15        *of such sexual assault, or whose minor collateral misconduct*  
16        *is discovered only as a result of the investigation into such*  
17        *sexual assault, may report such sexual assault to proper*  
18        *authorities without fear or receipt of discipline in connec-*  
19        *tion with such minor collateral misconduct.*

20        *(c) MINOR COLLATERAL MISCONDUCT.—For purposes*  
21        *of the safe-to-report policy, minor collateral misconduct*  
22        *shall include any of the following:*

- 23                *(1) Improper use or possession of alcohol.*  
24                *(2) Consensual intimate behavior or fraterniza-*  
25        *tion with another cadet or midshipman.*

1           (3) *Presence in an off-limits area.*

2           (4) *Such other misconduct as the Secretary of*  
3 *Defense shall specify in the regulations under sub-*  
4 *section (a).*

5           (d) *MILITARY SERVICE ACADEMY DEFINED.—In this*  
6 *section, the term “military service academy” means the fol-*  
7 *lowing:*

8           (1) *The United States Military Academy.*

9           (2) *The United States Naval Academy.*

10          (3) *The United States Air Force Academy.*

11          (4) *The United States Coast Guard Academy.*

12 **SEC. 560a. RECOUPMENT OF FUNDS FROM CADETS AND**  
13 **MIDSHIPMEN SEPARATED FOR CRIMINAL MIS-**  
14 **CONDUCT.**

15          *Not later than September 30, 2020, each Secretary of*  
16 *a military department shall prescribe regulations by which*  
17 *the Superintendent of a military service academy under the*  
18 *jurisdiction of the Secretary shall, pursuant to section*  
19 *303a(e) of title 37, United States Code, recoup the cost of*  
20 *advanced education received by a cadet or midshipman who*  
21 *is separated from that military service academy—*

22           (1) *at any time before the cadet or midshipman*  
23 *graduates from the military service academy; and*

24           (2) *for criminal misconduct by the cadet or mid-*  
25 *shipman.*

1     ***Subtitle G—Member Training and***  
2                     ***Transition***

3     ***SEC. 561. PROHIBITION ON GENDER-SEGREGATED TRAIN-***  
4                     ***ING AT MARINE CORPS RECRUIT DEPOTS.***

5             *(a) PARRIS ISLAND.—*

6                     *(1) PROHIBITION.—Subject to paragraph (2),*  
7             *training at the Marine Corps Recruit Depot, Parris*  
8             *Island, South Carolina, may not be segregated based*  
9             *on gender.*

10                    *(2) DEADLINE.—The Commandant of the Marine*  
11             *Corps shall carry out this subsection not later than*  
12             *five years after the date of the enactment of this Act.*

13             *(b) SAN DIEGO.—*

14                    *(1) PROHIBITION.—Subject to paragraph (2),*  
15             *training at the Marine Corps Recruit Depot, San*  
16             *Diego, California, may not be segregated based on*  
17             *gender.*

18                    *(2) DEADLINE.—The Commandant of the Marine*  
19             *Corps shall carry out this subsection not later than*  
20             *eight years after the date of the enactment of this Act.*

21     ***SEC. 562. MEDICAL PERSONNEL AT MARINE CORPS RE-***  
22                     ***CRUIT DEPOTS.***

23             *Not later than September 30, 2020, the Secretary of*  
24             *the Navy, in coordination with the Navy Medical Depart-*  
25             *ment, shall—*

1           (1) *assign personnel to the Marine Recruit*  
2           *Training Regiment at each Marine Corps Recruit*  
3           *Depot who—*

4                   (A) *possess sufficient medical training and*  
5                   *equipment to evaluate sick recruits; and*

6                   (B) *is capable of determining whether a re-*  
7                   *cruit requires emergent care; and*

8           (2) *ensure such personnel is available after busi-*  
9           *ness hours in order to advise personnel regarding the*  
10          *course of action for managing a sick recruit.*

11 **SEC. 563. ASSESSMENT OF DEATHS OF RECRUITS UNDER**  
12                   **THE JURISDICTION OF THE SECRETARY OF**  
13                   **THE NAVY.**

14          (a) *ASSESSMENT.*—*The Inspector General of the De-*  
15          *partment of Defense shall conduct an assessment of the*  
16          *deaths of recruits at facilities under the jurisdiction of the*  
17          *Secretary of the Navy, and the effectiveness of the current*  
18          *medical protocols on the training bases.*

19          (b) *REPORT.*—*Not later than September 30, 2020, the*  
20          *Inspector General shall submit to the Committees on Armed*  
21          *Services of the Senate and the House of Representative a*  
22          *report containing the results of the assessment conducted*  
23          *under subsection (a). The report shall include the following:*

1           (1) *The number of recruits who died during*  
2 *basic training in the five years preceding the date of*  
3 *the report.*

4           (2) *The causes of deaths described in paragraph*  
5 *(1).*

6           (3) *The types of medical treatment that was pro-*  
7 *vided to recruits described in paragraph (1).*

8           (4) *Whether any of the deaths identified under*  
9 *paragraph (1) were found to be a result of medical*  
10 *negligence.*

11          (5) *A description of medical capabilities and*  
12 *personnel available to the recruits at each facility.*

13          (6) *A description of medical resources accessible*  
14 *to the recruits at the company level at each facility.*

15          (7) *A description of 24-hour medical resources*  
16 *available to recruits at each facility.*

17          (8) *An evaluation of the guidelines and resources*  
18 *in place to monitor sick recruits.*

19          (9) *An evaluation of how supervisors evaluate*  
20 *and determine whether a sick recruit should continue*  
21 *training or further seek medical assistance.*

22          (10) *An evaluation of how the Secretary of the*  
23 *Navy can increase visibility of the comprehensive*  
24 *medical status of a sick recruit to instructors and su-*

1        *supervisors in order to provide better situational aware-*  
2        *ness of the such medical status.*

3                *(11) An evaluation of how to improve and med-*  
4        *ical care for recruits.*

5        **SEC. 564. INCLUSION OF SPECIFIC EMAIL ADDRESS BLOCK**  
6                        **ON CERTIFICATE OF RELEASE OR DISCHARGE**  
7                        **FROM ACTIVE DUTY (DD FORM 214).**

8                *(a) MODIFICATION REQUIRED.—The Secretary of De-*  
9        *fense shall modify the Certificate of Release or Discharge*  
10        *from Active Duty (DD Form 214) to include a specific block*  
11        *explicitly identified as the location in which a member of*  
12        *the Armed Forces may provide one or more email addresses*  
13        *by which the member may be contacted after discharge or*  
14        *release from active duty in the Armed Forces.*

15                *(b) DEADLINE FOR MODIFICATION.—The Secretary of*  
16        *Defense shall release a revised Certificate of Release or Dis-*  
17        *charge from Active Duty (DD Form 214), modified as re-*  
18        *quired by subsection (a), not later than one year after the*  
19        *date of the enactment of this Act.*

20        **SEC. 565. MACHINE READABILITY AND ELECTRONIC TRANS-**  
21                        **FERABILITY OF CERTIFICATE OF RELEASE OR**  
22                        **DISCHARGE FROM ACTIVE DUTY (DD FORM**  
23                        **214).**

24                *(a) MODIFICATION REQUIRED.—The Secretary of De-*  
25        *fense shall modify the Certificate of Release or Discharge*

1 *from Active Duty (DD Form 214) to be machine readable*  
2 *and electronically transferable.*

3 (b) *DEADLINE FOR MODIFICATION.*—*The Secretary of*  
4 *Defense shall release a revised Certificate of Release or Dis-*  
5 *charge from Active Duty (DD Form 214), modified pursu-*  
6 *ant to subsection (a), not later than four years after the*  
7 *date of the enactment of this Act.*

8 (c) *REPORT.*—*Not later than 180 days after the date*  
9 *of the enactment of this Act, the Secretary of Defense shall*  
10 *submit a report to Congress regarding the following:*

11 (1) *What systems of the Department of Defense*  
12 *require an individual to manually enter information*  
13 *from DD Form 214.*

14 (2) *What activities of the Department of Defense*  
15 *require a veteran or former member of the Armed*  
16 *Forces to provide a physical copy of DD Form 214.*

17 (3) *The order of priority for modernizing items*  
18 *identified under paragraphs (1) and (2) as deter-*  
19 *mined by the Secretary.*

20 (4) *The estimated cost, as determined by the Sec-*  
21 *retary, to automate items identified under para-*  
22 *graphs (1) and (2).*

23 **SEC. 566. RECORDS OF SERVICE FOR RESERVES.**

24 (a) *ESTABLISHMENT.*—*Not later than September 30,*  
25 *2020, the Secretary of Defense shall establish and imple-*

1 *ment a standard record of service for members of the reserve*  
2 *components of the Armed Forces, similar to DD Form 214,*  
3 *that summarizes the record of service of each such member,*  
4 *including dates of active duty service.*

5 *(b) COORDINATION.—In carrying out this section, the*  
6 *Secretary of Defense shall coordinate with the Secretary of*  
7 *Veterans Affairs to ensure that the record established under*  
8 *this section is acceptable as proof of service for former mem-*  
9 *bers of the reserve components of the Armed Forces who are*  
10 *eligible for benefits under laws administered by the Sec-*  
11 *retary of Veterans Affairs to receive such benefits.*

12 ***Subtitle H—Military Family Readiness and Dependents’ Education***

14 ***SEC. 571. AUTHORIZING MEMBERS TO TAKE LEAVE FOR A***  
15 ***BIRTH OR ADOPTION IN MORE THAN ONE IN-***  
16 ***CREMENT.***

17 *Section 701(i) of title 10, United States Code, is*  
18 *amended by striking paragraph (5).*

19 ***SEC. 572. DEFERRED DEPLOYMENT FOR MEMBERS WHO***  
20 ***GIVE BIRTH.***

21 *Section 701 of title 10, United States Code, is amended*  
22 *by adding at the end the following new subsection:*

23 *“(l) A member of the armed forces who gives birth*  
24 *while on active duty may not be deployed during the period*  
25 *of 12 months beginning on the date of such birth except—*

1           “(1) at the election of such member; and

2           “(2) with the approval of a health care provider  
3       employed at a military medical treatment facility.”.

4 **SEC. 573. AUTHORITY OF THE SECRETARY CONCERNED TO**  
5           **TRANSPORT REMAINS OF A COVERED DECE-**  
6           **DENT TO NO MORE THAN TWO PLACES SE-**  
7           **LECTED BY THE PERSON DESIGNATED TO DI-**  
8           **RECT DISPOSITION OF THE REMAINS.**

9       (a) *AUTHORITY.*—Section 1482(a)(8) of title 10,  
10 *United States Code, is amended to read as follows:*

11           “(8)(A) *Transportation of the remains, and trav-*  
12       *el and transportation allowances as specified in regu-*  
13       *lations prescribed under section 464 of title 37 for an*  
14       *escort of one person, to the place, subject to subpara-*  
15       *graph (B), selected by the person designated to direct*  
16       *disposition of the remains or, if such a selection is not*  
17       *made, to a national or other cemetery which is se-*  
18       *lected by the Secretary and in which burial of the de-*  
19       *cedent is authorized.*

20           “(B) *The person designated to direct disposition*  
21       *of the remains may select two places under subpara-*  
22       *graph (A) if the second place is a national cemetery.*  
23       *If that person selects two places, the Secretary con-*  
24       *cerned may pay for transportation to the second place*

1       *only by means of reimbursement under to subsection*  
2       *(b).*

3           “(C) *When transportation of the remains in-*  
4       *cludes transportation by aircraft under section 562 of*  
5       *the John Warner National Defense Authorization Act*  
6       *for Fiscal Year 2007 (Public Law 109–364; 10 U.S.C.*  
7       *1482 note), the Secretary concerned shall provide, to*  
8       *the maximum extent practicable, for delivery of the*  
9       *remains by air to the commercial, general aviation,*  
10       *or military airport nearest to the place selected by the*  
11       *designee.”.*

12       ***(b) MILITARY ESCORT AND HONOR GUARD ONLY TO***  
13       ***FIRST LOCATION.—Section 562(b) of the John Warner Na-***  
14       ***tional Defense Authorization Act for Fiscal Year 2007 (Pub-***  
15       ***lic Law 109–364; 10 U.S.C. 1482 note) is amended by add-***  
16       ***ing at the end the following: “If the person designated to***  
17       ***direct disposition of the remains selects two places under***  
18       ***such section, the term means only the first of those two***  
19       ***places.”.***

20       ***SEC. 574. CLARIFICATION REGARDING ELIGIBILITY TO***  
21                       ***TRANSFER ENTITLEMENT UNDER POST-9/11***  
22                       ***EDUCATIONAL ASSISTANCE PROGRAM.***

23       *Section 3319(j) of title 38, United States Code, is*  
24       *amended by adding at the end the following new paragraph:*

1       “(3) *The Secretary of Defense may not prescribe any*  
2 *regulation that would provide for a limitation on eligibility*  
3 *to transfer unused education benefits to family members*  
4 *based on a maximum number of years of service in the*  
5 *Armed Forces.*”

6 **SEC. 575. ABSENTEE BALLOT TRACKING PROGRAM.**

7       *(a) ESTABLISHMENT AND OPERATION OF PROGRAM.—*  
8 *Section 102(h) of the Uniformed and Overseas Citizens Ab-*  
9 *sentee Voting Act (52 U.S.C. 20302(h)) is amended to read*  
10 *as follows:*

11       *“(h) ABSENTEE BALLOT TRACKING PROGRAM.—*

12               *“(1) REQUIRING ESTABLISHMENT AND OPER-*  
13 *ATION OF PROGRAM.—The chief State election official,*  
14 *in coordination with local election jurisdictions, shall*  
15 *establish and operate an absentee ballot tracking pro-*  
16 *gram described in paragraph (2) for the use of absent*  
17 *uniformed services voters and overseas voters.*

18               *“(2) PROGRAM DESCRIBED.—*

19                       *“(A) INFORMATION ON TRANSMISSION AND*  
20 *RECEIPT OF ABSENTEE BALLOTS.—An absentee*  
21 *ballot tracking program described in this para-*  
22 *graph is a program under which—*

23                               *“(i) the State or local election official*  
24 *responsible for the transmission of absentee*  
25 *ballots in an election for Federal office oper-*

1            *ates procedures to track and confirm the*  
2            *transmission of such ballots and to make*  
3            *information on the transmission of such a*  
4            *ballot available by means of online access*  
5            *using the internet site of the official's office;*  
6            *and*

7            *“(ii) the State or local election official*  
8            *responsible for the receipt of absentee ballots*  
9            *in an election for Federal office operates*  
10           *procedures to track and confirm the receipt*  
11           *of such ballots and (subject to subparagraph*  
12           *(B)) to make information on the receipt of*  
13           *such a ballot available by means of online*  
14           *access using the internet site of the official's*  
15           *office.*

16           *“(B) SPECIFIC INFORMATION ON RECEIPT*  
17           *OF VOTED ABSENTEE BALLOTS.—The informa-*  
18           *tion required to be made available under clause*  
19           *(ii) of subparagraph (A) with respect to the re-*  
20           *ceipt of a voted absentee ballot in an election for*  
21           *Federal office shall include information regard-*  
22           *ing whether the vote cast on the ballot was count-*  
23           *ed, and, in the case of a vote which was not*  
24           *counted, the reasons therefor. The appropriate*  
25           *State or local election official shall make the in-*

1           *formation described in the previous sentence*  
2           *available during the 30-day period that begins*  
3           *on the date on which the results of the election*  
4           *are certified, or during such earlier 30-day pe-*  
5           *riod as the official may provide.*

6           “(3) *USE OF TOLL-FREE TELEPHONE NUMBER*  
7           *BY OFFICIALS WITHOUT INTERNET SITE.—A program*  
8           *established and operated by a State or local election*  
9           *official whose office does not have an internet site*  
10          *may meet the requirements of paragraph (2) if the of-*  
11          *ficial has established and operates a toll-free telephone*  
12          *number that may be used to obtain the information*  
13          *on the transmission or receipt of the absentee ballot*  
14          *which is required under such paragraph.”.*

15          (b) *EFFECTIVE DATE.—The amendment made by sub-*  
16          *section (a) shall apply with respect to elections held during*  
17          *2020 or any succeeding year.*

18          **SEC. 576. ANNUAL STATE REPORT CARD.**

19          *Section 1111(h)(1)(C)(ii) of the Elementary and Sec-*  
20          *ondary Education Act of 1965 (20 U.S.C.*  
21          *6311(h)(1)(C)(ii)) is amended by striking “on active duty*  
22          *(as defined in section 101(d)(5) of such title)”.*

1 **SEC. 577. TRANSPORTATION OF REMAINS OF CASUALTIES;**  
2 **TRAVEL EXPENSES FOR NEXT OF KIN.**

3 (a) *TRANSPORTATION FOR REMAINS OF A MEMBER*  
4 *WHO DIES NOT IN A THEATER OF COMBAT OPERATIONS.*—  
5 *Section 562 of the John Warner National Defense Author-*  
6 *ization Act for Fiscal Year 2007 (Public Law 109–364; 10*  
7 *U.S.C. 1482 note) is amended—*

8 (1) *in the heading, by striking “DYING IN A*  
9 ***THEATER OF COMBAT OPERATIONS*”; and**

10 (2) *in subsection (a), by striking “in a combat*  
11 *theater of operations” and inserting “outside of the*  
12 *United States”.*

13 (b) *TRANSPORTATION FOR FAMILY.*—*The Secretary of*  
14 *Defense shall revise Department of Defense Instruction*  
15 *1300.18 to extend travel privileges via Invitational Travel*  
16 *Authorization to family members of members of the Armed*  
17 *Forces who die outside of the United States and whose re-*  
18 *mains are returned to the United States through the mor-*  
19 *tuary facility at Dover Air Force Base, Delaware.*

20 **SEC. 578. MEETINGS OF OFFICIALS OF THE DEPARTMENT**  
21 **OF DEFENSE WITH SURVIVORS OF DECEASED**  
22 **MEMBERS OF THE ARMED FORCES.**

23 (a) *CHIEFS OF THE ARMED FORCES.*—*The Secretary*  
24 *of Defense shall direct the chiefs of the Armed Forces to meet*  
25 *periodically with survivors of deceased members of the*  
26 *Armed Forces to receive feedback from those survivors re-*

1 *garding issues affecting such survivors. The Chief of the Na-*  
2 *tional Guard Bureau shall meet with survivors of deceased*  
3 *members of the Air National Guard and the Army National*  
4 *Guard.*

5       **(b) UNDER SECRETARY OF DEFENSE FOR PERSONNEL**  
6 *AND READINESS.—The Under Secretary of Defense for Per-*  
7 *sonnel and Readiness shall meet periodically with survivors*  
8 *of deceased members of the Armed Forces to discuss policies*  
9 *of the Department of Defense regarding military casualties*  
10 *and Gold Star families.*

11       **(c) BRIEFING.—***Not later than April 1, 2020, the*  
12 *Under Secretary of Defense for Personnel and Readiness*  
13 *shall brief the Committee on Armed Services of the House*  
14 *of Representatives regarding policies established and the re-*  
15 *sults of the meetings under subsection (b).*

16 **SEC. 579. DIRECT EMPLOYMENT PILOT PROGRAM FOR MEM-**  
17 **BERS OF THE NATIONAL GUARD AND RE-**  
18 **SERVE, VETERANS, THEIR SPOUSES AND DE-**  
19 **PENDENTS, AND MEMBERS OF GOLD STAR**  
20 **FAMILIES.**

21       **(a) IN GENERAL.—***The Secretary of Defense may*  
22 *carry out a pilot program to enhance the efforts of the De-*  
23 *partment of Defense to provide job placement assistance and*  
24 *related employment services directly to the following:*

1           (1) *Members of the National Guard and Reserves*  
2           *in reserve active status.*

3           (2) *Veterans of the Armed Forces.*

4           (3) *Spouses and other dependents of individuals*  
5           *referred to in paragraphs (1) and (2).*

6           (4) *Members of Gold Star Families.*

7           (b) *ADMINISTRATION.—The pilot program shall be of-*  
8           *fered to, and administered by, the adjutants general ap-*  
9           *pointed under section 314 of title 32, United States Code,*  
10          *or other officials in the States concerned designated by the*  
11          *Secretary for purposes of the pilot program.*

12          (c) *COST-SHARING REQUIREMENT.—As a condition on*  
13          *the provision of funds under this section to a State to sup-*  
14          *port the operation of the pilot program in the State, the*  
15          *State must agree to contribute an amount, derived from*  
16          *non-Federal sources, equal to at least 50 percent of the funds*  
17          *provided by the Secretary to the State under this section.*

18          (d) *DIRECT EMPLOYMENT PROGRAM MODEL.—The*  
19          *pilot program should follow a job placement program model*  
20          *that focuses on working one-on-one with individuals speci-*  
21          *fied in subsection (a) to cost-effectively provide job place-*  
22          *ment services, including services such as identifying unem-*  
23          *ployed and underemployed individuals, job matching serv-*  
24          *ices, resume editing, interview preparation, and post-em-*  
25          *ployment follow up. Development of the pilot program*

1 *should be informed by existing State direct employment*  
2 *programs for members of the reserve components and vet-*  
3 *erans.*

4 *(e) TRAINING.—The pilot program should draw on the*  
5 *resources provided to transitioning members of the Armed*  
6 *Forces with civilian training opportunities through the*  
7 *SkillBridge transition training program administered by*  
8 *the Department of Defense.*

9 *(f) EVALUATION.—The Secretary shall develop outcome*  
10 *measurements to evaluate the success of the pilot program.*

11 *(g) REPORTING REQUIREMENTS.—*

12 *(1) REPORT REQUIRED.—Not later than March*  
13 *1, 2021, the Secretary of Defense shall submit to the*  
14 *congressional defense committees a report describing*  
15 *the results of the pilot program. The Secretary shall*  
16 *prepare the report in coordination with the Secretary*  
17 *of Veterans Affairs and the Chief of the National*  
18 *Guard Bureau.*

19 *(2) ELEMENTS OF REPORT.—A report under*  
20 *paragraph (1) shall include the following:*

21 *(A) A description and assessment of the ef-*  
22 *fectiveness and achievements of the pilot pro-*  
23 *gram, including the number of members of the*  
24 *reserve components and veterans of the Armed*

1           *Forces hired and the cost-per-placement of par-*  
2           *ticipating members and veterans.*

3                     *(B) An assessment of the impact of the pilot*  
4           *program and increased reserve component em-*  
5           *ployment levels on the readiness of members of*  
6           *the reserve components and on the retention of*  
7           *members of the Armed Forces.*

8                     *(C) A comparison of the pilot program to*  
9           *other programs conducted by the Department of*  
10          *Defense and Department of Veterans Affairs to*  
11          *provide unemployment and underemployment*  
12          *support to members of the reserve components*  
13          *and veterans of the Armed Forces, including the*  
14          *best practices developed through and used in*  
15          *such programs.*

16                    *(D) Any other matters considered appro-*  
17          *priate by the Secretary of Defense.*

18          *(h) DURATION OF AUTHORITY.—The authority to*  
19          *carry out the pilot program expires on September 30, 2023,*  
20          *except that the Secretary may, at the Secretary’s discretion,*  
21          *extend the pilot program for not more than two additional*  
22          *fiscal years.*

1 **SEC. 580. CONTINUED ASSISTANCE TO SCHOOLS WITH SIG-**  
2 **NIFICANT NUMBERS OF MILITARY DEPEND-**  
3 **ENT STUDENTS.**

4 (a) *ASSISTANCE TO SCHOOLS WITH SIGNIFICANT*  
5 *NUMBERS OF MILITARY DEPENDENT STUDENTS.*—Of the  
6 amount authorized to be appropriated for fiscal year 2020  
7 in Division D of this Act and available for operation and  
8 maintenance for Defense-wide activities as specified in the  
9 funding table in Section 4301 of this Act, \$40,000,000 shall  
10 be available only for the purpose of providing assistance  
11 to local educational agencies under subsection (a) of section  
12 572 of the National Defense Authorization Act for Fiscal  
13 Year 2006 (Public Law 109–163; 20 U.S.C. 7703b).

14 (b) *IMPACT AID FOR CHILDREN WITH SEVERE DIS-*  
15 *ABILITIES.*—Of the amount authorized to be appropriated  
16 for fiscal year 2020 in Division D of this Act and available  
17 for operation and maintenance for Defense-wide activities  
18 as specified in the funding table in Section 4301 of this  
19 Act, \$10,000,000 shall be available for payments under sec-  
20 tion 363 of the Floyd D. Spence National Defense Author-  
21 ization Act for Fiscal Year 2001 (Public Law 106–398; 20  
22 U.S.C. 7703a).

23 (c) *LOCAL EDUCATIONAL AGENCY DEFINED.*—In this  
24 section, the term “local educational agency” has the mean-  
25 ing given that term in section 7013(9) of the Elementary  
26 and Secondary Education Act of 1965 (20 U.S.C. 7713(9)).

1 ***Subtitle I—Decorations and Awards***

2 ***SEC. 581. EXPANSION OF GOLD STAR LAPEL BUTTON ELIGI-***  
3 ***BILITY TO STEPSIBLINGS; FREE REPLACE-***  
4 ***MENT.***

5 *(a) ELIGIBILITY OF STEPSIBLINGS.—Subsection (d)(3)*  
6 *of section 1126 of title 10, United States Code, is amended*  
7 *by striking “and half sisters” and inserting “half sisters,*  
8 *stepbrothers, and stepsisters”.*

9 *(b) FREE REPLACEMENT.—Subsection (c) of such sec-*  
10 *tion is amended by striking “and payment of an amount*  
11 *sufficient to cover the cost of manufacture and distribution”*  
12 *and inserting “at no cost to that person”.*

13 ***SEC. 582. ESTABLISHMENT OF THE ATOMIC VETERANS***  
14 ***SERVICE MEDAL.***

15 *(a) SERVICE MEDAL REQUIRED.—The Secretary of*  
16 *Defense shall design and produce a military service medal,*  
17 *to be known as the “Atomic Veterans Service Medal”, to*  
18 *honor retired and former members of the Armed Forces who*  
19 *are radiation-exposed veterans (as such term is defined in*  
20 *section 1112(c)(3) of title 38, United States Code).*

21 *(b) DISTRIBUTION OF MEDAL.—*

22 *(1) ISSUANCE TO RETIRED AND FORMER MEM-*  
23 *BERS.—At the request of a radiation-exposed veteran,*  
24 *the Secretary of Defense shall issue the Atomic Vet-*  
25 *erans Service Medal to the veteran.*

1           (2) *ISSUANCE TO NEXT-OF-KIN.*—*In the case of a*  
2           *radiation-exposed veteran who is deceased, the Sec-*  
3           *retary may provide for issuance of the Atomic Vet-*  
4           *erans Service Medal to the next-of-kin of the person.*

5           (3) *APPLICATION.*—*The Secretary shall prepare*  
6           *and disseminate as appropriate an application by*  
7           *which radiation-exposed veterans and their next-of-*  
8           *kin may apply to receive the Atomic Veterans Service*  
9           *Medal.*

10 **SEC. 583. REVIEW OF WORLD WAR I VALOR MEDALS.**

11           (a) *REVIEW REQUIRED.*—*Each Secretary concerned*  
12           *shall review the service records of each World War I veteran*  
13           *described in subsection (b) under the jurisdiction of such*  
14           *Secretary who is recommended for such review by the Valor*  
15           *Medals Review Task Force referred to in subsection (c), or*  
16           *another veterans service organization, in order to determine*  
17           *whether such veteran should be awarded the Medal of Honor*  
18           *for valor during World War I.*

19           (b) *COVERED WORLD WAR I VETERANS.*—*The World*  
20           *War I veterans whose service records are to be reviewed*  
21           *under subsection (a) are the following:*

22           (1) *Any African American war veteran, Asian*  
23           *American war veteran, Hispanic American war vet-*  
24           *eran, Jewish American war veteran, or Native Amer-*  
25           *ican war veteran who was awarded the Distinguished*

1       *Service Cross or the Navy Cross for an action that oc-*  
2       *curred between April 6, 1917, and November 11,*  
3       *1918.*

4               (2) *Any African American war veteran, Asian*  
5       *American war veteran, Hispanic American war vet-*  
6       *eran, Jewish American war veteran, or Native Amer-*  
7       *ican war veteran who was awarded the Croix de*  
8       *Guerre with Palm (that is, awarded at the Army level*  
9       *or above) by the Government of France for an action*  
10       *that occurred between April 6, 1917, and November*  
11       *11, 1918.*

12               (3) *Any African American war veteran, Asian*  
13       *American war veteran, Hispanic American war vet-*  
14       *eran, Jewish American war veteran, or Native Amer-*  
15       *ican war veteran who was recommended for a Medal*  
16       *of Honor for an action that occurred from April 6,*  
17       *1917, to November 11, 1918, if the Department of De-*  
18       *fense possesses or receives records relating to such rec-*  
19       *ommendation.*

20       (c) *CONSULTATIONS.—In carrying out the review*  
21       *under subsection (a), each Secretary concerned may consult*  
22       *with the Valor Medals Review Task Force, jointly estab-*  
23       *lished by the United States Foundation for the Commemo-*  
24       *ration of the World Wars (in consultation with the United*  
25       *States World War One Centennial Commission) and the*

1 *George S. Robb Centre for the Study of the Great War, and*  
2 *with such other veterans service organizations as such Sec-*  
3 *retary determines appropriate, until the conclusion of the*  
4 *review.*

5       *(d) RECOMMENDATION BASED ON REVIEW.—If a Sec-*  
6 *retary concerned determines, based upon the review under*  
7 *subsection (a), that the award of the Medal of Honor to*  
8 *a covered World War I veteran is warranted, such Secretary*  
9 *shall submit to the President a recommendation that the*  
10 *President award the Medal of Honor to that veteran.*

11       *(e) AUTHORITY TO AWARD MEDAL OF HONOR.—The*  
12 *Medal of Honor may be awarded to a World War I veteran*  
13 *in accordance with a recommendation of a Secretary con-*  
14 *cerned under subsection (d).*

15       *(f) WAIVER OF TIME LIMITATIONS.—An award of the*  
16 *Medal of Honor may be made under subsection (e) without*  
17 *regard to—*

18               *(1) section 7274 or 8298 of title 10, United*  
19               *States Code, as applicable; and*

20               *(2) any regulation or other administrative re-*  
21               *striction on—*

22                       *(A) the time for awarding the Medal of*  
23                       *Honor; or*

1           (B) *the awarding of the Medal of Honor for*  
2           *service for which a Distinguished Service Cross*  
3           *or Navy Cross has been awarded.*

4           (g) *DEFINITIONS.—*

5           (1) *IN GENERAL.—In this section:*

6           (A) *AFRICAN AMERICAN WAR VETERAN.—*  
7           *The term “African American war veteran”*  
8           *means any person who served in the United*  
9           *States Armed Forces between April 6, 1917, and*  
10           *November 11, 1918, and who identified himself*  
11           *as of African descent on his military personnel*  
12           *records.*

13           (B) *ASIAN AMERICAN WAR VETERAN.—The*  
14           *term “Asian American war veteran” means any*  
15           *person who served in the United States Armed*  
16           *Forces between April 6, 1917, and November 11,*  
17           *1918, and who identified himself racially, na-*  
18           *tionally, or ethnically as originating from a*  
19           *country in Asia on his military personnel*  
20           *records.*

21           (C) *HISPANIC AMERICAN WAR VETERAN.—*  
22           *The term “Hispanic American war veteran”*  
23           *means any person who served in the United*  
24           *States Armed Forces between April 6, 1917, and*  
25           *November 11, 1918, and who identified himself*

1           *racially, nationally, or ethnically as originating*  
2           *from a country where Spanish is an official lan-*  
3           *guage on his military personnel records.*

4           (D) *JEWISH AMERICAN WAR VETERAN.*—  
5           *The term “Jewish American war veteran” mean*  
6           *any person who served in the United States*  
7           *Armed Forces between April 6, 1917, and No-*  
8           *vember 11, 1918, and who identified himself as*  
9           *Jewish on his military personnel records.*

10          (E) *NATIVE AMERICAN WAR VETERAN.*—*The*  
11          *term “Native American war veteran” means any*  
12          *person who served in the United States Armed*  
13          *Forces between April 6, 1917, and November 11,*  
14          *1918, and who identified himself as a member of*  
15          *a federally recognized tribe within the modern*  
16          *territory of the United States on his military*  
17          *personnel records.*

18          (F) *SECRETARY CONCERNED.*—*The term*  
19          *“Secretary concerned” means—*

20                 (i) *the Secretary of the Army, in the*  
21                 *case of members of the Armed Forces who*  
22                 *served in the Army between April 6, 1917,*  
23                 *and November 11, 1918; and*

24                 (ii) *the Secretary of the Navy, in the*  
25                 *case of members of the Armed Forces who*

1           *served in the Navy or the Marine Corps be-*  
2           *tween April 6, 1917, and November 11,*  
3           *1918.*

4           (2) *APPLICATION OF DEFINITIONS OF ORIGIN.—*

5           *If the military personnel records of a person do not*  
6           *reflect the person's membership in one of the groups*  
7           *identified in subparagraphs (B) through (F) of para-*  
8           *graph (1) but historical evidence exists that dem-*  
9           *onstrates the person's Jewish faith held at the time of*  
10          *service, or that the person identified himself as of Af-*  
11          *rican, Asian, Hispanic, or Native American descent,*  
12          *the person may be treated as being a member of the*  
13          *applicable group by the Secretary concerned (in con-*  
14          *sultation with the organizations referred to in sub-*  
15          *section (c)) for purposes of this section.*

16          ***Subtitle J—Miscellaneous Reports***  
17                                   ***and Other Matters***

18          ***SEC. 591. REPEAL OF QUARTERLY REPORT ON END***  
19                                   ***STRENGTHS.***

20          *Section 115(e) of title 10, United States Code, is*  
21          *amended by striking paragraph (3).*

22          ***SEC. 592. REVISION OF WORKPLACE AND GENDER RELA-***  
23                                   ***TIONS SURVEYS.***

24          (i) *SURVEYS OF MEMBERS OF THE ARMED FORCES.—*

25          *Section 481(c) of title 10, United States Code, is amended—*

1           (1) *in the matter preceding paragraph (1), by*  
2           *inserting “unwanted sexual contact,” after “assault,”;*

3           (2) *by redesignating paragraphs (3) through (5)*  
4           *as paragraphs (4) through (6), respectively;*

5           (3) *by inserting after paragraph (2), the fol-*  
6           *lowing new paragraph (3):*

7           “(3) *The specific types of unwanted sexual con-*  
8           *tact that have occurred, and the number of times each*  
9           *respondent has been subjected to unwanted sexual con-*  
10          *tact during the preceding year.”;*

11          (4) *in paragraph (5), as so redesignated, by*  
12          *striking “and assault” and inserting “assault, and*  
13          *unwanted sexual contact”;*

14          (5) *in paragraph (6), as so redesignated, by*  
15          *striking “or assault” and inserting “assault, or un-*  
16          *wanted sexual contact”.*

17          (b) *SURVEYS OF CIVILIAN EMPLOYEES OF THE DE-*  
18          *PARTMENT OF DEFENSE.—Section 481a of title 10, United*  
19          *States Code, is amended—*

20                 (1) *in subsection (a)(1), by striking “and dis-*  
21                 *crimination” and inserting “discrimination, and un-*  
22                 *wanted sexual contact”;*

23                 (2) *in subsection (b)—*

1           (A) by redesignating paragraphs (3)  
2 through (5) as paragraphs (4) through (6), re-  
3 spectively;

4           (B) by inserting after paragraph (2) the fol-  
5 lowing new paragraph (3):

6           “(3) The specific types of unwanted sexual con-  
7 tact that civilian employees of the Department were  
8 subjected to by other personnel of the Department (in-  
9 cluding contractor personnel), and the number of  
10 times each respondent has been subjected to unwanted  
11 sexual contact during the preceding fiscal year.”;

12           (C) in paragraph (5), as so redesignated, by  
13 striking “and discrimination” and inserting  
14 “discrimination, and unwanted sexual contact”;  
15 and

16           (D) in paragraph (6), as so redesignated, by  
17 striking “or discrimination” and inserting “dis-  
18 crimination, or unwanted sexual contact”.

19           (c) *EFFECTIVE DATE.*—The amendments made by sub-  
20 sections (a) and (b) shall take effect on the date of the enact-  
21 ment of this Act and shall apply with respect to surveys  
22 under sections 481 and 481a of title 10, United States Code,  
23 that are initiated after such date.

1 **SEC. 593. MODIFICATION OF ELEMENTS OF REPORTS ON**  
2 **THE IMPROVED TRANSITION ASSISTANCE**  
3 **PROGRAM.**

4 *Section 552(b)(4) of the John S. McCain National De-*  
5 *fense Authorization Act for Fiscal Year 2019 (Public Law*  
6 *115–232) is amended—*

7 *(1) by redesignating subparagraphs (A) through*  
8 *(D) as subparagraphs (B) through (E), respectively;*

9 *(2) by inserting before subparagraph (B), as re-*  
10 *designated by paragraph (1), the following new sub-*  
11 *paragraph (A):*

12 *“(A) The total number of members eligible*  
13 *to attend Transition Assistance Program coun-*  
14 *seling.”; and*

15 *(3) by adding at the end the following new sub-*  
16 *paragraphs:*

17 *“(F) The number of members who partici-*  
18 *pated in programs under section 1143(e) of title*  
19 *10, United States Code (commonly referred to as*  
20 *‘Job Training, Employment Skills, Apprentices-*  
21 *ships and Internships (JTEST-AI)’ or ‘Skill*  
22 *Bridge’).*

23 *“(G) Such other information as is required*  
24 *to provide Congress with a comprehensive de-*  
25 *scription of the participation of the members in*

1           *the Transition Assistance Program and pro-*  
2           *grams described in subparagraph (F).”.*

3   **SEC. 594. QUESTIONS IN WORKPLACE SURVEYS REGARDING**  
4                   **SUPREMACIST, EXTREMIST, AND RACIST AC-**  
5                   **TIVITY.**

6           *The Secretary of Defense shall include, in the work-*  
7   *place and equal opportunity, command climate, and work-*  
8   *place and gender relations surveys administered by the Of-*  
9   *fice of People Analytics of the Department of Defense, ques-*  
10 *tions regarding whether respondents have ever—*

11           (1) *experienced or witnessed in the workplace—*

12                   (A) *supremacist activity;*

13                   (B) *extremist activity; or*

14                   (C) *racism; and*

15           (2) *reported activity described in paragraph (1).*

16   **SEC. 595. COMMAND MATTERS IN CONNECTION WITH TRAN-**  
17                   **SITION ASSISTANCE PROGRAMS.**

18           (a) *INCLUSION OF SUPPORT FOR PARTICIPATION IN*  
19 *PROGRAMS IN COMMAND CLIMATE ASSESSMENTS.—Not*  
20 *later than 180 days after the date of the enactment of this*  
21 *Act, each command climate assessment for the commander*  
22 *of a military installation shall include an assessment of the*  
23 *extent to which the commander and other command per-*  
24 *sonnel at the installation encourage and support the par-*  
25 *ticipation in covered transition assistance programs of*

1 *members of the Armed Forces at the installation who are*  
2 *eligible for participation in such programs.*

3       (b) *TRAINING ON PROGRAMS.*—*The training provided*  
4 *a commander of a military installation in connection with*  
5 *the commencement of assignment to the installation shall*  
6 *include a module on the covered transition assistance pro-*  
7 *grams available for members of the Armed Forces assigned*  
8 *to the installation.*

9       (c) *COVERED TRANSITION ASSISTANCE PROGRAMS*  
10 *DEFINED.*—*In this section, the term “covered transition as-*  
11 *sistance programs” means the following:*

12           (1) *The Transition Assistance Program.*

13           (2) *The programs under section 1143(e) of title*  
14 *10, United States Code (commonly referred to as “Job*  
15 *Training, Employment Skills, Apprenticeships and*  
16 *Internships (JTEST–AI)” or “Skill Bridge”).*

17           (3) *Any program of apprenticeship, on-the-job-*  
18 *training, internship, education, or transition assist-*  
19 *ance offered (whether by public or private entities) in*  
20 *the vicinity of the military installation concerned in*  
21 *which members of the Armed Forces at the installa-*  
22 *tion are eligible to participate.*

23           (4) *Any other program of apprenticeship, on-the-*  
24 *job training, internship, education, or transition as-*

1        *sistance specified by the Secretary of Defense for pur-*  
2        *poses of this section.*

3    **SEC. 596. EXPRESSING SUPPORT FOR THE DESIGNATION OF**  
4                    **A “GOLD STAR FAMILIES REMEMBRANCE**  
5                    **DAY”.**

6        *(a) FINDINGS.—Congress finds the following:*

7                    *(1) March 2, 2020, marked the 91st anniversary*  
8        *of President Calvin Coolidge signing an Act of Con-*  
9        *gress that approved and funded the first Gold Star*  
10       *pilgrimage to enable Gold Star families to travel to*  
11       *the gravesites of their loved ones who died during*  
12       *World War I.*

13                   *(2) The members of the Armed Forces of the*  
14       *United States bear the burden of protecting the free-*  
15       *dom of the people of the United States.*

16                   *(3) The sacrifices of the families of the fallen*  
17       *members of the Armed Forces of the United States*  
18       *should never be forgotten.*

19       *(b) SENSE OF CONGRESS.—It is the sense of Congress*  
20 *to—*

21                   *(1) support the designation of a “Gold Star*  
22       *Families Remembrance Day”;*

23                   *(2) honor and recognize the sacrifices made by*  
24       *the families of members of the Armed Forces of the*

1 *United States who gave their lives to defend freedom*  
 2 *and protect America; and*

3 *(3) encourage the people of the United States to*  
 4 *observe “Gold Star Families Remembrance Day”*  
 5 *by—*

6 *(A) performing acts of service and good will*  
 7 *in their communities; and*

8 *(B) celebrating the lives of those who have*  
 9 *made the ultimate sacrifice so that others could*  
 10 *continue to enjoy life, liberty, and the pursuit of*  
 11 *happiness.*

12 **TITLE VI—COMPENSATION AND**  
 13 **OTHER PERSONNEL BENEFITS**  
 14 **Subtitle A—Pay and Allowances**

15 **SEC. 601. CLARIFICATION OF CONTINUATION OF PAYS DUR-**  
 16 **ING HOSPITALIZATION AND REHABILITATION**  
 17 **RESULTING FROM WOUNDS, INJURY, OR ILL-**  
 18 **NESS INCURRED WHILE ON DUTY IN A HOS-**  
 19 **TILE FIRE AREA OR EXPOSED TO AN EVENT**  
 20 **OF HOSTILE FIRE OR OTHER HOSTILE AC-**  
 21 **TION.**

22 *Section 372(b)(1) of title 37, United States Code, is*  
 23 *amended to read as follows:*

24 *“(1) The date on which the member is returned*  
 25 *for assignment to other than a medical or patient*



1           “(i) 130 percent of the Federal poverty guide-  
2           lines of the Department of Health and Human Serv-  
3           ices for the location and number of persons in the  
4           household of the covered member for such year; minus

5           “(ii) the gross household income of the covered  
6           member during the preceding year; and

7           “(B) divided by 12.

8           “(2) The monthly allowance payable to a covered mem-  
9           ber for a year shall be payable for each of the 12 months  
10          following March of such year.

11          “(c) NOTICE OF ELIGIBILITY.—(1)(A) Not later than  
12          December 31 each year, the Director of the Defense Finance  
13          and Accounting Service shall notify, in writing, each indi-  
14          vidual whom the Director estimates will be a covered mem-  
15          ber during the following year of the potential entitlement  
16          of that individual to the allowance described in subsection  
17          (a) for that following year.

18          “(B) The preliminary notice under subparagraph (A)  
19          shall include information regarding financial management  
20          and assistance programs administered by the Secretary of  
21          Defense for which a covered member is eligible.

22          “(2) Not later than January 31 each year, each indi-  
23          vidual who seeks to receive the allowance for such year  
24          (whether or not subject to a notice for such year under para-  
25          graph (1)) shall submit to the Director such information

1 *as the Director shall require for purposes of this section in*  
2 *order to determine whether or not such individual is a cov-*  
3 *ered member for such year.*

4       “(3) *Not later than February 28 each year, the Direc-*  
5 *tor shall notify, in writing, each individual the Director*  
6 *determines to be a covered member for such year.*

7       “(d) *ELECTION NOT TO RECEIVE ALLOWANCE.—(1) A*  
8 *covered member otherwise entitled to receive the allowance*  
9 *under subsection (a) for a year may elect, in writing, not*  
10 *to receive the allowance for such year. Any election under*  
11 *this subsection shall be effective only for the year for which*  
12 *made. Any election for a year under this subsection is irrev-*  
13 *ocable.*

14       “(2) *A covered member who does not submit informa-*  
15 *tion described in subsection (d)(2) for a year as otherwise*  
16 *required by that subsection shall be deemed to have elected*  
17 *not to receive the allowance for such year.*

18       “(e) *DEFINITIONS.—In this section:*

19               “(1) *The term ‘covered member’ means a regular*  
20 *member of the Army, Navy, Marine Corps, or Air*  
21 *Force—*

22                       “(A) *who has completed initial entry train-*  
23 *ing;*

24                       “(B) *whose gross household income during*  
25 *the most recent year did not exceed an amount*

1           *equal to 130 percent of the Federal poverty*  
2           *guidelines of the Department of Health and*  
3           *Human Services for the location and number of*  
4           *persons in the household of the covered member*  
5           *for such year; and*

6                     *“(C) who does not elect under subsection (d)*  
7                     *not to receive the allowance for such year.*

8                     *“(2) The term ‘gross household income’ of a cov-*  
9                     *ered member for a year for purposes of paragraph*  
10                    *(1)(B) does not include any basic allowance for hous-*  
11                    *ing received by the covered member (and any depend-*  
12                    *ents of the covered member in the household of the cov-*  
13                    *ered member) during such year under section 403 of*  
14                    *this title.*

15                    *“(f) REGULATIONS.—The Secretary of Defense shall*  
16                    *prescribe regulations for the administration of this section.*  
17                    *Subject to subsection (e)(2), such regulations shall specify*  
18                    *the income to be included in, and excluded from, the gross*  
19                    *household income of individuals for purposes of this sec-*  
20                    *tion.”.*

21                    *(b) CLERICAL AMENDMENT.—The table of sections at*  
22                    *the beginning of chapter 7 of such title is amended by in-*  
23                    *serting after the item relating to section 402a the following*  
24                    *new item:*

*“402b. Basic needs allowance for low-income regular members.”.*

1 **SEC. 603. TEMPORARY INCREASE OF RATES OF BASIC AL-**  
2 **LOWANCE FOR HOUSING FOLLOWING DETER-**  
3 **MINATION THAT LOCAL CIVILIAN HOUSING**  
4 **COSTS SIGNIFICANTLY EXCEED SUCH RATES.**

5 *Section 403(b) of title 37, United States Code, is*  
6 *amended by adding at the end the following new paragraph:*

7 *“(8)(A) The Secretary of Defense may prescribe a tem-*  
8 *porary increase in the current rates of basic allowance for*  
9 *housing for a military housing area or a portion thereof*  
10 *(in this paragraph, ‘BAH rates’) if the Secretary deter-*  
11 *mines that the actual costs of adequate housing for civilians*  
12 *in that military housing area or portion thereof exceed the*  
13 *current BAH rates by more than 20 percent.*

14 *“(B) Any temporary increase in BAH rates under this*  
15 *paragraph shall remain in effect only until the effective date*  
16 *of the first adjustment of BAH rates for the affected mili-*  
17 *tary housing area that occurs after the date of the increase*  
18 *under this paragraph.*

19 *“(C) This paragraph shall cease to be effective on Sep-*  
20 *tember 30, 2022.”.*

21 **SEC. 604. BASIC ALLOWANCE FOR HOUSING FOR A MEMBER**  
22 **WITHOUT DEPENDENTS WHEN RELOCATION**  
23 **WOULD FINANCIALLY DISADVANTAGE THE**  
24 **MEMBER.**

25 *Section 403(o) of title 37, United States Code, is*  
26 *amended—*

1           (1) by inserting “(1)” before “In”; and

2           (2) by adding at the end the following new para-  
3 graph:

4           “(2)(A) In the case of a member described in subpara-  
5 graph (B), the member may be treated for the purposes of  
6 this section as if the unit to which the member is assigned  
7 did not undergo a change of home port or a change of per-  
8 manent duty station if the Secretary concerned determines  
9 that it would be inequitable to base the member’s entitle-  
10 ment to, and amount of, a basic allowance for housing on  
11 the new home port or permanent duty station.

12          “(B) A member described in this subparagraph—

13           “(i) has no dependents;

14           “(ii) is assigned to a unit that undergoes a  
15 change of home port or a change of permanent duty  
16 station; and

17           “(iii) is in receipt of orders to return to the pre-  
18 vious home port or duty station.”.

19 **SEC. 605. PARTIAL DISLOCATION ALLOWANCE.**

20          (a) **CURRENT AUTHORITY.**—Section 477(f)(1) of title  
21 37, United States Code, is amended by striking “family”.

22          (b) **FUTURE AUTHORITY.**—Section 452(c) of title 37,  
23 United States Code, is amended—

24           (1) by redesignating paragraph (3) as para-  
25 graph (4); and

1           (2) by inserting after paragraph (2) the fol-  
2           lowing new paragraph (3):

3           “(3)(A) A partial dislocation allowance paid to  
4           a member ordered to occupy or vacate housing pro-  
5           vided by the United States.

6           “(B) Beginning on January 1, 2022, the partial  
7           dislocation allowance under subparagraph (A) shall,  
8           subject to subparagraph (C), be equal in value to the  
9           allowance under section 477(f) of this title on Decem-  
10          ber 31, 2021, as adjusted in regulations prescribed by  
11          the Secretary concerned under the authority estab-  
12          lished by that section.

13          “(C) Effective on the same date in 2022 and any  
14          subsequent year that the monthly rates of basic pay  
15          for all members are increased under section 1009 of  
16          this title or another provision of law, the Secretary of  
17          Defense shall adjust the rate of the partial dislocation  
18          allowance under this paragraph by the percentage  
19          equal to the average percentage increase in the rates  
20          of basic pay.”.

1     ***Subtitle B—Bonuses and Special***  
2                     ***Incentive Pays***

3     ***SEC. 611. ONE-YEAR EXTENSION OF CERTAIN EXPIRING***  
4                     ***BONUS AND SPECIAL PAY AUTHORITIES.***

5             (a) *AUTHORITIES RELATING TO RESERVE FORCES.*—  
6     *Section 910(g) of title 37, United States Code, relating to*  
7     *income replacement payments for reserve component mem-*  
8     *bers experiencing extended and frequent mobilization for ac-*  
9     *tive duty service, is amended by striking “December 31,*  
10    *2019” and inserting “December 31, 2020”.*

11            (b) *TITLE 10 AUTHORITIES RELATING TO HEALTH*  
12    *CARE PROFESSIONALS.*—*The following sections of title 10,*  
13    *United States Code, are amended by striking “December 31,*  
14    *2019” and inserting “December 31, 2020”:*

15                (1) *Section 2130a(a)(1), relating to nurse officer*  
16                *candidate accession program.*

17                (2) *Section 16302(d), relating to repayment of*  
18                *education loans for certain health professionals who*  
19                *serve in the Selected Reserve.*

20            (c) *AUTHORITIES RELATING TO NUCLEAR OFFI-*  
21    *CERS.*—*Section 333(i) of title 37, United States Code, is*  
22    *amended by striking “December 31, 2019” and inserting*  
23    *“December 31, 2020”.*

24            (d) *AUTHORITIES RELATING TO TITLE 37 CONSOLI-*  
25    *DATED SPECIAL PAY, INCENTIVE PAY, AND BONUS AU-*

1 *THORITIES.—The following sections of title 37, United*  
2 *States Code, are amended by striking “December 31, 2019”*  
3 *and inserting “December 31, 2020”:*

4           (1) *Section 331(h), relating to general bonus au-*  
5 *thority for enlisted members.*

6           (2) *Section 332(g), relating to general bonus au-*  
7 *thority for officers.*

8           (3) *Section 334(i), relating to special aviation*  
9 *incentive pay and bonus authorities for officers.*

10           (4) *Section 335(k), relating to special bonus and*  
11 *incentive pay authorities for officers in health profes-*  
12 *sions.*

13           (5) *Section 336(g), relating to contracting bonus*  
14 *for cadets and midshipmen enrolled in the Senior Re-*  
15 *serve Officers’ Training Corps.*

16           (6) *Section 351(h), relating to hazardous duty*  
17 *pay.*

18           (7) *Section 352(g), relating to assignment pay or*  
19 *special duty pay.*

20           (8) *Section 353(i), relating to skill incentive pay*  
21 *or proficiency bonus.*

22           (9) *Section 355(h), relating to retention incen-*  
23 *tives for members qualified in critical military skills*  
24 *or assigned to high priority units.*

1       (e) *AUTHORITY TO PROVIDE TEMPORARY INCREASE IN*  
2 *RATES OF BASIC ALLOWANCE FOR HOUSING.*—Section  
3 *403(b)(7)(E) of title 37, United States Code, is amended*  
4 *by striking “December 31, 2019” and inserting “December*  
5 *31, 2020”.*

6       ***Subtitle C—Family and Survivor***  
7                                   ***Benefits***

8       ***SEC. 621. PAYMENT OF TRANSITIONAL COMPENSATION FOR***  
9                                   ***CERTAIN DEPENDENTS.***

10       Section 1059(m) of title 10, United States Code, is  
11 amended—

12               (1) *in the subsection heading, by inserting*  
13               *“MEMBERS OR” after “DEPENDENTS OF”;*

14               (2) *by inserting “member or” before “former*  
15               *member” each place it appears; and*

16               (3) *by amending paragraph (3) to read as fol-*  
17               *lows:*

18               *“(3) For the purposes of this subsection, a member is*  
19 *considered separated from active duty upon the earliest of—*

20               *“(A) the date an administrative separation is*  
21               *initiated by a commander of the member;*

22               *“(B) the date the court-martial sentence is ad-*  
23               *judged if the sentence, as adjudged, includes a dis-*  
24               *missal, dishonorable discharge, bad conduct discharge,*  
25               *or forfeiture of all pay and allowances; or*

1           “(C) the date the member’s term of service ex-  
2       pires.”.

3 **SECTION 622. DEATH GRATUITY FOR ROTC GRADUATES.**

4       (a) *IN GENERAL.*—Section 1475(a)(4) of title 10,  
5 *United States Code*, is amended by adding “; or a graduate  
6 of a reserve officers’ training corps who has yet to receive  
7 a first duty assignment; or” at the end.

8       (b) *EFFECTIVE DATE.*—The amendment under sub-  
9 section (a) applies to deaths that occur on or after the date  
10 of the enactment of this Act.

11 **SEC. 623. CONTINUED ELIGIBILITY FOR EDUCATION AND**  
12 **TRAINING OPPORTUNITIES FOR SPOUSES OF**  
13 **PROMOTED MEMBERS.**

14       Section 1784a(b) of title 10, *United States Code*, is  
15 amended—

16           (1) by inserting “(1)” before “Assistance”; and

17           (2) by adding at the end the following new para-  
18 graph:

19       “(2) A spouse who is eligible for a program under this  
20 section and begins a course of education or training for a  
21 degree, license, or credential described in subsection (a) may  
22 not become ineligible to complete such course of education  
23 or training solely because the member to whom the spouse  
24 is married is promoted to a higher grade.”.

1 **SEC. 624. OCCUPATIONAL IMPROVEMENTS FOR RELOCATED**  
2 **SPOUSES OF MEMBERS OF THE UNIFORMED**  
3 **SERVICES.**

4 *(a) IMPROVEMENT OF OCCUPATIONAL LICENSE PORT-*  
5 *ABILITY FOR MILITARY SPOUSES THROUGH INTERSTATE*  
6 *COMPACTS.—Section 1784 of title 10, United States Code,*  
7 *is amended by adding at the end the following new sub-*  
8 *section:*

9 *“(h) IMPROVEMENT OF OCCUPATIONAL LICENSE*  
10 *PORTABILITY THROUGH INTERSTATE COMPACTS.—*

11 *“(1) IN GENERAL.—The Secretary of Defense*  
12 *may enter into a cooperative agreement with the*  
13 *Council of State Governments to assist with funding*  
14 *of the development of interstate compacts on licensed*  
15 *occupations in order to alleviate the burden associated*  
16 *with relicensing in such an occupation by spouse of*  
17 *a members of the armed forces in connection with a*  
18 *permanent change of duty station of members to an-*  
19 *other State.*

20 *“(2) LIMITATION.—The amount provided under*  
21 *paragraph (1) as assistance for the development of*  
22 *any particular interstate compact may not exceed*  
23 *\$1,000,000.*

24 *“(3) ANNUAL REPORT.—Not later than February*  
25 *28 each year, the Secretary shall submit to the Com-*  
26 *mittees on Armed Services of the Senate and the*

1 *House of Representatives a report on interstate com-*  
2 *pacts described in paragraph (1) developed through*  
3 *assistance provided under that paragraph. Each re-*  
4 *port shall set forth the following:*

5 *“(A) Any interstate compact developed dur-*  
6 *ing the preceding calendar year, including the*  
7 *occupational licenses covered by such compact*  
8 *and the States agreeing to enter into such com-*  
9 *pact.*

10 *“(B) Any interstate compact developed dur-*  
11 *ing a prior calendar year into which one or*  
12 *more additional States agreed to enter during*  
13 *the preceding calendar year.*

14 *“(4) EXPIRATION.—The authority to enter into a*  
15 *cooperative agreement under paragraph (1), and to*  
16 *provide assistance described in that paragraph pursu-*  
17 *ant to such cooperative agreement, shall expire on*  
18 *September 30, 2024.”.*

19 *(b) GUARANTEE OF RESIDENCY FOR REGISTRATION OF*  
20 *BUSINESSES OF SPOUSES OF MEMBERS OF UNIFORMED*  
21 *SERVICES.—*

22 *(1) IN GENERAL.—Title VI of the*  
23 *Servicemembers Civil Relief Act (50 U.S.C. 4021 et*  
24 *seq.) is amended by adding at the end the following*  
25 *new section:*

1 **“SEC. 707. GUARANTEE OF RESIDENCY FOR BUSINESSES OF**  
2 **SPOUSES OF SERVICEMEMBERS.**

3 *“For the purposes of registering a business—*

4 *“(1) a person who is absent from a State because*  
5 *the person is accompanying the person’s spouse who*  
6 *is absent from that same State in compliance with*  
7 *military or naval orders shall not, solely by reason of*  
8 *that absence—*

9 *“(A) be deemed to have lost a residence or*  
10 *domicile in that State, without regard to whether*  
11 *or not the person intends to return to that State;*

12 *“(B) be deemed to have acquired a residence*  
13 *or domicile in any other State; or*

14 *“(C) be deemed to have become a resident in*  
15 *or a resident of any other State; and*

16 *“(2) the spouse of a servicemember may elect to*  
17 *use the same residence as the servicemember regardless*  
18 *of the date on which the marriage of the spouse and*  
19 *the servicemember occurred.”.*

20 *(2) CLERICAL AMENDMENT.—The table of con-*  
21 *tents in section 1(b) of such Act is amended by insert-*  
22 *ing after the item relating to section 706 the following*  
23 *new item:*

*“Sec. 707. Guarantee of residency for businesses of spouses of servicemembers.”.*

1 **SEC. 625. EXPANSION OF AUTHORITY TO PROVIDE FINAN-**  
2 **CIAL ASSISTANCE TO CIVILIAN PROVIDERS**  
3 **OF CHILD CARE SERVICES OR YOUTH PRO-**  
4 **GRAM SERVICES WHO PROVIDE SUCH SERV-**  
5 **ICES TO SURVIVORS OF MEMBERS OF THE**  
6 **ARMED FORCES WHO DIE IN LINE OF DUTY.**

7 *Section 1798(a) of title 10, United States Code, is*  
8 *amended by inserting “, survivors of members of the armed*  
9 *forces who die in line of duty while on active duty, active*  
10 *duty for training, or inactive duty for training,” after*  
11 *“armed forces”.*

12 **SEC. 626. SPACE-AVAILABLE TRAVEL ON MILITARY AIR-**  
13 **CRAFT FOR CHILDREN AND SURVIVING**  
14 **SPOUSES OF MEMBERS WHO DIE OF HOSTILE**  
15 **ACTION OR TRAINING DUTY.**

16 *Section 2641b(c) of title 10, United States Code, is*  
17 *amended—*

18 *(1) by redesignating paragraph (6) as para-*  
19 *graph (7); and*

20 *(2) by inserting after paragraph (5) the fol-*  
21 *lowing new paragraph (6):*

22 *“(6) Children (as described by section*  
23 *1072(2)(D) or section 1110b(b) of this title, as the*  
24 *case may be) and surviving spouses of members of the*  
25 *armed forces who die as a result of hostile action or*  
26 *training duty.”.*

1 **SEC. 627. CONSIDERATION OF SERVICE ON ACTIVE DUTY TO**  
2 **REDUCE AGE OF ELIGIBILITY FOR RETIRED**  
3 **PAY FOR NON-REGULAR SERVICE.**

4 *Section 12731(f)(2)(B)(i) of title 10, United States*  
5 *Code, is amended by striking “under a provision of law*  
6 *referred to in section 101(a)(13)(B) or under section*  
7 *12301(d)” and inserting “under section 12301(d) or 12304b*  
8 *of this title, or under a provision of law referred to in sec-*  
9 *tion 101(a)(13)(B)”.*

10 **SEC. 628. MODIFICATION TO AUTHORITY TO REIMBURSE**  
11 **FOR STATE LICENSURE AND CERTIFICATION**  
12 **COSTS OF A SPOUSE OF A MEMBER ARISING**  
13 **FROM RELOCATION.**

14 *Section 476(p) of title 37, United States Code, is*  
15 *amended—*

16 *(1) in paragraph (1), by striking “armed forces”*  
17 *and inserting “uniformed services”;*

18 *(2) in paragraph (2), by striking “\$500” and in-*  
19 *serting “\$1,000”;*

20 *(3) in paragraph (3)—*

21 *(A) in subparagraph (A), by striking*  
22 *“and”;*

23 *(B) in subparagraph (B), by striking the*  
24 *period and inserting “; and”; and*

25 *(C) by adding at the end the following new*  
26 *subparagraph:*

1           “(C) an analysis of whether the maximum reim-  
2           bursement amount under paragraph (2) is sufficient  
3           to cover the average costs of relicensing described in  
4           paragraph (1).”; and

5           (4) in paragraph (4), by striking “December 31,  
6           2022” and inserting “December 31, 2024”.

7   **SEC. 629. IMPROVEMENTS TO CHILD CARE FOR MEMBERS**  
8           **OF THE ARMED FORCES.**

9           (a) *EXPANSION OF AUTHORITY TO PROVIDE FINAN-*  
10          *CIAL ASSISTANCE TO CIVILIAN PROVIDERS OF CHILD CARE*  
11          *SERVICES OR YOUTH PROGRAM SERVICES WHO PROVIDE*  
12          *SUCH SERVICES TO SURVIVORS OF MEMBERS OF THE*  
13          *ARMED FORCES WHO DIE IN THE LINE OF DUTY.*—Section  
14          1798(a) of title 10, United States Code, is amended by in-  
15          serting “, survivors of members of the armed forces who die  
16          in the line of duty while on active military, naval, or air  
17          service (as that term is defined in section 101 of title 38),”  
18          after “armed forces”.

19          (b) *EXPANSION OF DIRECT HIRING AUTHORITY FOR*  
20          *CHILD CARE SERVICE PROVIDERS.*—Section 559 of the Na-  
21          tional Defense Authorization Act for Fiscal Year 2018 (Pub-  
22          lic Law 115–91; 10 U.S.C. 1792 note) is amended—

23                  (1) in the section heading, by striking “**FOR DE-**  
24                  **PARTMENT CHILD DEVELOPMENT CENTERS**”;

1           (2) *in subsection (a)(1), by striking for “Depart-*  
2           *ment of Defense child development centers” and in-*  
3           *serting “for the Department of Defense”; and*

4           (3) *in subsection (e), by striking “in child devel-*  
5           *opment centers”.*

6           (c) *ASSESSMENT OF FINANCIAL ASSISTANCE PRO-*  
7           *VIDED TO CIVILIAN CHILD CARE PROVIDERS.—*

8           (1) *ASSESSMENT.—The Secretary of Defense*  
9           *shall assess the maximum amount of financial assist-*  
10           *ance provided to eligible civilian providers of child*  
11           *care services or youth program services that furnish*  
12           *such service for members of the armed forces and em-*  
13           *ployees of the United States under section 1798 of*  
14           *title 10, United States Code, as amended by sub-*  
15           *section (a). Such assessment shall include the fol-*  
16           *lowing:*

17                   (A) *The determination of the Secretary*  
18                   *whether the maximum allowable financial assist-*  
19                   *ance should be standardized across the Armed*  
20                   *Forces.*

21                   (B) *Whether the maximum allowable*  
22                   *amount adequately accounts for high-cost duty*  
23                   *stations.*

24           (2) *REPORT.—No later than June 1, 2020, the*  
25           *Secretary of Defense shall submit a report to the Com-*

1 *mittees on Armed Services of the Senate and the*  
2 *House of Representatives regarding the results of the*  
3 *assessment under paragraph (1) and any actions*  
4 *taken by the Secretary to remedy identified shortfalls*  
5 *in assistance described in that paragraph.*

6 *(d) ASSESSMENT OF CHILD CARE CAPACITY ON MILI-*  
7 *TARY INSTALLATIONS.—*

8 *(1) ASSESSMENT.—The Secretary of Defense*  
9 *shall assess the capacity for child care at all military*  
10 *installations to ensure that members of the Armed*  
11 *Forces have meaningful access to child care during*  
12 *tours of duty.*

13 *(2) REMEDIAL ACTION.—The Secretary of De-*  
14 *fense shall take steps the Secretary determines nec-*  
15 *essary to alleviate the waiting lists for child care de-*  
16 *scribed in paragraph (1).*

17 *(3) REPORT.—Not later than June 1, 2020, the*  
18 *Secretary of Defense shall provide a report to the*  
19 *Committees on Armed Forces of the Senate and the*  
20 *House of Representative regarding—*

21 *(A) the assessment under paragraph (1);*

22 *(B) action taken under paragraph (2); and*

23 *(C) any additional resources (including ad-*  
24 *ditional funding for and child care facilities and*

1           workers) the Secretary determines necessary to  
2           increase access described in paragraph (1).

3           (e) *ASSESSMENT OF ACCESSIBILITY OF WEBSITES OF*  
4 *THE DEPARTMENT OF DEFENSE RELATED TO CHILD CARE*  
5 *AND SPOUSAL EMPLOYMENT.*—

6           (1) *ASSESSMENT.*—*The Secretary of Defense*  
7 *shall review the functions and accessibility of websites*  
8 *of the Department of Defense designed for members of*  
9 *the Armed Forces and the families of such members*  
10 *to access information and services offered by the De-*  
11 *partment regarding child care, spousal employment,*  
12 *and other family matters.*

13           (2) *REPORT.*—*Not later than March 1, 2020, the*  
14 *Secretary of Defense shall provide a briefing to the*  
15 *Committees on Armed Services of the Senate and the*  
16 *House of Representatives regarding the results of the*  
17 *assessment under paragraph (1) and actions taken to*  
18 *enhance accessibility of the websites.*

19           (f) *PORTABILITY OF BACKGROUND INVESTIGATIONS*  
20 *FOR CHILD CARE PROVIDERS.*—*Not later than 180 days*  
21 *after the date of the enactment of this Act, the Secretary*  
22 *of Defense shall ensure that the background investigation*  
23 *and training certification for a child care provider em-*  
24 *ployed by the Department of Defense in a facility of the*  
25 *Department may be transferred to another facility of the*

1 *Department, without regard to which Secretary of a mili-*  
2 *tary department has jurisdiction over either such facility.*

3 **SEC. 630. CASUALTY ASSISTANCE FOR SURVIVORS OF DE-**  
4 **CEASED ROTC GRADUATES.**

5 *Section 633 of the National Defense Authorization Act*  
6 *for Fiscal Year 2014 (10 U.S.C. 1475 note) is amended by*  
7 *adding at the end the following new subsection:*

8 *“(c) ROTC GRADUATES.—*

9 *“(1) TREATED AS MEMBERS.—For purposes of*  
10 *this section, a graduate of a reserve officers’ training*  
11 *corps who dies before receiving a first duty assign-*  
12 *ment shall be treated as a member of the Armed*  
13 *Forces who dies while on active duty.*

14 *“(2) EFFECTIVE DATE.—This subsection applies*  
15 *to deaths on or after the date of the enactment of the*  
16 *National Defense Authorization Act for Fiscal Year*  
17 *2020.”.*

18 ***Subtitle D—Defense Resale Matters***

19 **SEC. 631. GAO REVIEW OF DEFENSE RESALE OPTIMIZATION**  
20 **STUDY.**

21 *(a) REVIEW.—The Comptroller General of the United*  
22 *States shall conduct a review of the business case analysis*  
23 *performed as part of the defense resale optimization study*  
24 *conducted by the Reform Management Group, titled “Study*

1 *to Determine the Feasibility of Consolidation of the Defense*  
2 *Resale Entities” and dated December 4, 2018.*

3 (b) *REPORT REQUIRED; ELEMENTS.*—Not later than  
4 *April 1, 2020, the Comptroller General shall submit to the*  
5 *Committees on Armed Services of the Senate and the House*  
6 *of Representatives a report regarding the review performed*  
7 *under this section. The report shall include evaluations of*  
8 *the following:*

9 (1) *The descriptions and justifications for the as-*  
10 *sumptions, analytical choices and data used by the*  
11 *Reform Management Group to calculate:*

12 (A) *Pricing.*

13 (B) *Sales assumptions.*

14 (C) *Accuracy of methods employed to meas-*  
15 *ure patron savings levels.*

16 (2) *The timetable for consolidation of military*  
17 *exchanges and commissaries.*

18 (3) *The recommendations for consolidation devel-*  
19 *oped as part of the business case analysis, including*  
20 *the overall cost of consolidation.*

21 (4) *The budget and oversight implications of*  
22 *merging non-appropriated funds and appropriated*  
23 *funds to implement the recommended reforms.*

24 (5) *The extent to which the Reform Management*  
25 *Group coordinated with the Secretaries of the mili-*

1        *tary departments and the chiefs of the Armed Forces*  
2        *in preparing the study.*

3                *(6) The extent to which the Reform Management*  
4        *Group addressed concerns of the Secretaries of the*  
5        *military departments and the chiefs of the Armed*  
6        *Forces in the study.*

7                *(7) If the recommendations in the business case*  
8        *analysis were implemented—*

9                        *(A) the ability of military exchanges and*  
10        *commissaries to provide earnings to support on-*  
11        *base morale, welfare, and recreation programs;*  
12        *and*

13                        *(B) the financial viability of the military*  
14        *exchanges and commissaries.*

15        *(c) DELAY ON CONSOLIDATION.—The Secretary of De-*  
16        *fense may not take any action to consolidate military ex-*  
17        *changes and commissaries until the Committees on Armed*  
18        *Services of the Senate and the House of Representatives no-*  
19        *tify the Secretary in writing of receipt and acceptance of*  
20        *the findings of the Comptroller General in the report re-*  
21        *quired under this section.*

1           **TITLE VII—HEALTH CARE**  
2                           **PROVISIONS**  
3           **Subtitle A—TRICARE and Other**  
4                           **Health Care Benefits**

5   **SEC. 701. CONTRACEPTION COVERAGE PARITY UNDER THE**  
6                           **TRICARE PROGRAM.**

7           (a) *IN GENERAL.*—Section 1074d of title 10, United  
8   *States Code, is amended—*

9                       (1) *in subsection (a), by inserting “FOR MEM-*  
10                      *BERS AND FORMER MEMBERS” after “SERVICES*  
11                      *AVAILABLE”;*

12                     (2) *by redesignating subsection (b) as subsection*  
13                      *(d); and*

14                     (3) *by inserting after subsection (a) the following*  
15                      *new subsections:*

16                      “(b) *CARE RELATED TO PREVENTION OF PREG-*  
17                      *NANCY.*—Female covered beneficiaries shall be entitled to  
18                      *care related to the prevention of pregnancy described by*  
19                      *subsection (d)(3).*

20                      “(c) *PROHIBITION ON COST SHARING FOR CERTAIN*  
21                      *SERVICES.*—Notwithstanding section 1074g(a)(6), section  
22                      1075, or section 1075a of this title, or any other provision  
23                      of law, cost sharing may not be imposed or collected for  
24                      care related to the prevention of pregnancy provided pursu-  
25                      ant to subsection (a) or (b), including for any method of

1 *contraception provided, whether provided through a facility*  
2 *of the uniformed services, the TRICARE retail pharmacy*  
3 *program, or the national mail-order pharmacy program.”.*

4 (b) *CONFORMING AMENDMENT.—Section 1077(a)(13)*  
5 *of such title is amended by striking “section 1074d(b)” and*  
6 *inserting “section 1074d(d)”.*

7 **SEC. 702. PREGNANCY PREVENTION ASSISTANCE AT MILI-**  
8 **TARY MEDICAL TREATMENT FACILITIES FOR**  
9 **SEXUAL ASSAULT SURVIVORS.**

10 (a) *IN GENERAL.—Chapter 55 of title 10, United*  
11 *States Code, is amended by inserting after section 1074o*  
12 *the following new section:*

13 **“§ 1074p. Provision of pregnancy prevention assist-**  
14 **ance at military medical treatment facili-**  
15 **ties**

16 *“(a) INFORMATION AND ASSISTANCE.—The Secretary*  
17 *of Defense shall promptly furnish to sexual assault sur-*  
18 *vivors at each military medical treatment facility the fol-*  
19 *lowing:*

20 *“(1) Comprehensive, medically and factually ac-*  
21 *curate, and unbiased written and oral information*  
22 *about all methods of emergency contraception ap-*  
23 *proved by the Food and Drug Administration.*

24 *“(2) Notification of the right of the sexual as-*  
25 *sault survivor to confidentiality with respect to the*

1        *information and care and services furnished under*  
2        *this section.*

3            *“(3) Upon request by the sexual assault survivor,*  
4        *emergency contraception or, if applicable, a prescrip-*  
5        *tion for emergency contraception.*

6            *“(b) INFORMATION.—The Secretary shall ensure that*  
7        *information provided pursuant to subsection (a) is provided*  
8        *in language that—*

9            *“(1) is clear and concise;*

10          *“(2) is readily comprehensible; and*

11          *“(3) meets such conditions (including conditions*  
12        *regarding the provision of information in languages*  
13        *other than English) as the Secretary may prescribe in*  
14        *regulations to carry out this section.*

15          *“(c) DEFINITIONS.—In this section:*

16          *“(1) The term ‘sexual assault survivor’ means*  
17        *any individual who presents at a military medical*  
18        *treatment facility and—*

19            *“(A) states to personnel of the facility that*  
20        *the individual experienced a sexual assault;*

21            *“(B) is accompanied by another person who*  
22        *states that the individual experienced a sexual*  
23        *assault; or*

1           “(C) whom the personnel of the facility rea-  
2           sonably believes to be a survivor of sexual as-  
3           sault.

4           “(2) The term ‘sexual assault’ means the conduct  
5           described in section 1565b(c) of this title that may re-  
6           sult in pregnancy.”.

7           (b) *CLERICAL AMENDMENT.*—The table of sections at  
8           the beginning of such chapter is amended by inserting after  
9           the item relating to section 1074o the following new item:

          “1074p. Provision of pregnancy prevention assistance at military medical treat-  
          ment facilities.”.

10   **SEC. 703. MODIFICATION OF ELIGIBILITY FOR TRICARE RE-**  
11                           **SERVE SELECT FOR CERTAIN MEMBERS OF**  
12                           **THE SELECTED RESERVE.**

13           Section 1076d(a)(2) of title 10, United States Code,  
14           is amended by striking “Paragraph (1) does not apply” and  
15           inserting “During the period preceding January 1, 2030,  
16           paragraph (1) does not apply”.

17   **SEC. 704. LEAD LEVEL SCREENINGS AND TESTINGS FOR**  
18                           **CHILDREN.**

19           (a) *TRICARE.*—

20                   (1) *WELL-BABY CARE.*—Section 1077 of title 10,  
21           United States Code, is amended by adding at the end  
22           the following new subsection:

1       “(i)(1) *Beginning January 1, 2020, in furnishing*  
2 *well-baby care under subsection (a)(8), the Secretary shall*  
3 *ensure that the following care is made available:*

4               “(A) *With respect to a child who lives in housing*  
5 *built before 1978 at any time during the first 24*  
6 *months of the life of the child—*

7                       “(i) *the first testing of the child for the level*  
8 *of lead in the blood of the child at approximately*  
9 *the age of 12 months; and*

10                       “(ii) *the second such test at approximately*  
11 *the age of 24 months.*

12               “(B) *With respect to a child not covered by sub-*  
13 *paragraph (A) whose parent or guardian, at any*  
14 *time during the first 24 months of the life of the child,*  
15 *has a military occupational specialty that the Sec-*  
16 *retary determines poses an elevated risk of lead expo-*  
17 *sure—*

18                       “(i) *the first testing of the child for the level*  
19 *of lead in the blood of the child at approximately*  
20 *the age of 12 months; and*

21                       “(ii) *the second such test at approximately*  
22 *the age of 24 months.*

23               “(C) *With respect to a child not covered by sub-*  
24 *paragraph (A) or (B)—*

1           “(i) the first screening of the child for an  
2           elevated risk of lead exposure at approximately  
3           the age of 12 months; and

4           “(ii) the second such screening at approxi-  
5           mately the age of 24 months.

6           “(D) With respect to a child covered by subpara-  
7           graph (C) whose screening indicates an elevated risk  
8           of lead exposure, testing of the child for the level of  
9           lead in the blood of the child.

10          “(2) The Secretary shall ensure that any care provided  
11          to a child pursuant to this chapter for lead poisoning, in-  
12          cluding the care under paragraph (1), is carried out in ac-  
13          cordance with applicable advice from the Centers for Dis-  
14          ease Control and Prevention.

15          “(3)(A) With respect to a child who receives a test  
16          under paragraph (1), the Secretary shall provide the results  
17          of the test to the parent or guardian of the child.

18          “(B) With respect to a child who receives a test under  
19          paragraph (1), the Secretary shall provide the results of the  
20          test and the address at which the child resides to—

21                 “(i) the relevant health department of the State  
22                 in which the child resides if the child resides in the  
23                 United States; or

24                 “(ii) the Centers for Disease Control and Preven-  
25                 tion if the child resides outside the United States.

1       “(C) *In providing information regarding a child to a*  
2 *State or the Centers for Disease Control and Prevention*  
3 *under subparagraph (B), the Secretary may not provide*  
4 *any identifying information or health information of the*  
5 *child that is not specifically authorized in such subpara-*  
6 *graph.*

7       “(D) *In this paragraph, the term ‘State’ means each*  
8 *of the several States, the District of Columbia, the Common-*  
9 *wealth of Puerto Rico, and any territory or possession of*  
10 *the United States.’’.*

11           (2) *CONFORMING AMENDMENT.—Subsection*  
12 *(a)(8) of such section is amended by striking “includ-*  
13 *ing well-baby care that includes one screening of an*  
14 *infant for the level of lead in the blood of the infant”*  
15 *and inserting “including, in accordance with sub-*  
16 *section (i), well-baby care that includes screenings*  
17 *and testings for lead exposure and lead poisoning”.*

18           (3) *STUDY.—Not later than January 1, 2021,*  
19 *the Secretary of Defense shall submit to the congres-*  
20 *sional defense committees a report detailing the fol-*  
21 *lowing:*

22                   (A) *The number of children who were tested*  
23 *for the level of lead in the blood of the child pur-*  
24 *suant to subparagraph (A) of subsection (i)(1) of*  
25 *section 1077 of title 10, United States Code, as*

1           *added by paragraph (1), and of such number, the*  
2           *number who were found to have elevated blood*  
3           *lead levels.*

4           *(B) The number of children who were tested*  
5           *for the level of lead in the blood of the child pur-*  
6           *suant to subparagraph (B) of such subsection*  
7           *(i)(1), and of such number, the number who were*  
8           *found to have lead poisoning.*

9           *(C) The number of children who were*  
10          *screened for an elevated risk of lead exposure*  
11          *pursuant to subparagraph (C) of such subsection*  
12          *(i)(1).*

13          *(D) The number of children who were tested*  
14          *for the level of lead in the blood of the child pur-*  
15          *suant to subparagraph (D) of such subsection,*  
16          *and of such number, the number who were found*  
17          *to have elevated blood lead levels.*

18          *(E) The treatment provided to children pur-*  
19          *suant to chapter 55 of title 10, United States*  
20          *Code, for lead poisoning.*

21          *(4) GAO REPORT.—Not later than January 1,*  
22          *2022, the Comptroller General of the United States*  
23          *shall submit to the congressional defense committees a*  
24          *report on the effectiveness of screening, testing, and*  
25          *treating children for lead exposure and lead poisoning*

1       *pursuant to chapter 55 of title 10, United States*  
2       *Code.*

3       *(b) NOTIFICATION OF HOUSING.—Section 403 of title*  
4       *37, United States Code, is amended by adding at the end*  
5       *the following new subsection:*

6       “*(p) RECORDS REGARDING HOUSING AND LEAD-*  
7       *BASED PAINT.—(1) The Secretary concerned shall keep a*  
8       *record of whether the following housing was built before,*  
9       *during, or after 1978:*

10               “*(A) Quarters of the United States under the ju-*  
11               *risdiction of that Secretary concerned.*

12               “*(B) A housing facility under the jurisdiction of*  
13               *that Secretary concerned.*

14               “*(C) Other housing in which a member of the*  
15               *uniformed service of that Secretary concerned resides.*

16       “*(2) As a condition of receipt of a basic allowance for*  
17       *housing under this section, a member of the uniformed serv-*  
18       *ices shall notify the Secretary concerned whether the hous-*  
19       *ing in which that member resides was built before, during,*  
20       *or after 1978.”.*

1 **SEC. 705. EXPOSURE TO OPEN BURN PITS AND TOXIC AIR-**  
2 **BORNE CHEMICALS OR OTHER AIRBORNE**  
3 **CONTAMINANTS AS PART OF PERIODIC**  
4 **HEALTH ASSESSMENTS AND OTHER PHYS-**  
5 **ICAL EXAMINATIONS.**

6 (a) *PERIODIC HEALTH ASSESSMENT.*—*The Secretary*  
7 *of Defense shall ensure that any periodic health assessment*  
8 *provided to members of the Armed Forces includes an eval-*  
9 *uation of whether the member has been—*

10 (1) *based or stationed at a location where an*  
11 *open burn pit was used; or*

12 (2) *exposed to toxic airborne chemicals or other*  
13 *airborne contaminants, including any information*  
14 *recorded as part of the Airborne Hazards and Open*  
15 *Burn Pit Registry.*

16 (b) *SEPARATION HISTORY AND PHYSICAL EXAMINA-*  
17 *TIONS.*—*Section 1145(a)(5) of title 10, United States Code,*  
18 *is amended by adding at the end the following new subpara-*  
19 *graph:*

20 “(C) *The Secretary concerned shall ensure that each*  
21 *physical examination of a member under subparagraph (A)*  
22 *includes an assessment of whether the member was—*

23 “(i) *based or stationed at a location where an*  
24 *open burn pit, as defined in subsection (c) of section*  
25 *201 of the Dignified Burial and Other Veterans’ Ben-*

1 *efits Improvement Act of 2012 (Public Law 112–260;*  
2 *38 U.S.C. 527 note), was used; or*

3 *“(i) exposed to toxic airborne chemicals or other*  
4 *airborne contaminants, including any information*  
5 *recorded as part of the registry established by the Sec-*  
6 *retary of Veterans Affairs under such section 201.”.*

7 *(c) DEPLOYMENT ASSESSMENTS.—Section 1074f(b)(2)*  
8 *of title 10, United States Code, is amended by adding at*  
9 *the end the following new subparagraph:*

10 *“(D) An assessment of whether the member*  
11 *was—*

12 *“(i) based or stationed at a location where*  
13 *an open burn pit, as defined in subsection (c) of*  
14 *section 201 of the Dignified Burial and Other*  
15 *Veterans’ Benefits Improvement Act of 2012*  
16 *(Public Law 112–260; 38 U.S.C. 527 note), was*  
17 *used; or*

18 *“(ii) exposed to toxic airborne chemicals or*  
19 *other airborne contaminants, including any in-*  
20 *formation recorded as part of the registry estab-*  
21 *lished by the Secretary of Veterans Affairs under*  
22 *such section 201.”.*

23 *(d) SHARING OF INFORMATION.—*

24 *(1) DOD–VA.—The Secretary of Defense and the*  
25 *Secretary of Veterans Affairs shall jointly enter into*

1        *a memorandum of understanding providing for the*  
2        *sharing by the Department of Defense with the De-*  
3        *partment of Veterans Affairs of the results of covered*  
4        *evaluations regarding the exposure by a member of*  
5        *the Armed Forces to toxic airborne chemicals or other*  
6        *airborne contaminants.*

7            (2) *REGISTRY.—If a covered evaluation of a*  
8        *member of the Armed Forces establishes that the mem-*  
9        *ber was based or stationed at a location where an*  
10       *open burn pit was used or that the member was ex-*  
11       *posed to toxic airborne chemicals or other airborne*  
12       *contaminants, the member shall be enrolled in the*  
13       *Airborne Hazards and Open Burn Pit Registry un-*  
14       *less the member elects to not so enroll.*

15           (e) *RULE OF CONSTRUCTION.—Nothing in this section*  
16       *may be construed to preclude eligibility for benefits under*  
17       *the laws administered by the Secretary of Veterans Affairs*  
18       *by reason of the open burn pit exposure history of a veteran*  
19       *not being recorded in a covered evaluation.*

20           (f) *DEFINITIONS.—In this section:*

21            (1) *The term “Airborne Hazards and Open Burn*  
22        *Pit Registry” means the registry established by the*  
23        *Secretary of Veterans Affairs under section 201 of the*  
24        *Dignified Burial and Other Veterans’ Benefits Im-*

1 *provement Act of 2012 (Public Law 112–260; 38*  
2 *U.S.C. 527 note).*

3 (2) *The term “covered evaluation” means—*

4 (A) *a periodic health assessment conducted*  
5 *in accordance with subsection (a);*

6 (B) *a separation history and physical ex-*  
7 *amination conducted under section 1145(a)(5) of*  
8 *title 10, United States Code, as amended by this*  
9 *section; and*

10 (C) *a deployment assessment conducted*  
11 *under section 1074f(b)(2) of such title, as amend-*  
12 *ed by this section.*

13 (3) *The term “open burn pit” has the meaning*  
14 *given that term in section 201(c) of the Dignified*  
15 *Burial and Other Veterans’ Benefits Improvement Act*  
16 *of 2012 (Public Law 112–260; 38 U.S.C. 527 note).*

17 **SEC. 706. ENHANCEMENT OF RECORDKEEPING AND**  
18 **POSTDEPLOYMENT MEDICAL ASSESSMENT**  
19 **REQUIREMENTS RELATED TO OCCUPATIONAL**  
20 **AND ENVIRONMENTAL HAZARD EXPOSURE**  
21 **DURING DEPLOYMENT.**

22 (a) *RECORDING OF OCCUPATIONAL AND ENVIRON-*  
23 *MENTAL HEALTH RISKS IN DEPLOYMENT AREA.—*

1           (1) *ELEMENTS OF MEDICAL TRACKING SYS-*  
2 *TEM.*—Subsection (b)(1)(A) of section 1074f of title  
3 *10, United States Code, is amended—*

4           (A) *in clause (ii), by striking “and” at the*  
5 *end;*

6           (B) *in clause (iii), by striking the period at*  
7 *the end and inserting “; and”; and*

8           (C) *by adding at the end the following new*  
9 *clause:*

10                           *“(iv) accurately record any*  
11                           *exposure to occupational and en-*  
12                           *vironmental health risks during*  
13                           *the course of their deployment.”.*

14           (2) *RECORDKEEPING.*—Subsection (c) of such  
15 *section is amended by inserting after “deployment*  
16 *area” the following: “(including the results of any as-*  
17 *essment performed by the Secretary of occupational*  
18 *and environmental health risks for such area)”.*

19           (3) *EFFECTIVE DATE.*—The amendments made  
20 *by this subsection shall take effect on the date of the*  
21 *enactment of this Act.*

22           (b) *INTEGRATION OF BURN PIT REGISTRY INFORMA-*  
23 *TION INTO ELECTRONIC HEALTH RECORDS.*—

1           (1) *UPDATES TO ELECTRONIC HEALTH*  
2 *RECORDS.—Beginning not later than one year after*  
3 *the date of the enactment of this Act—*

4           (A) *the Secretary of Defense shall ensure*  
5 *that the electronic health record maintained by*  
6 *such Secretary of a member of the Armed Forces*  
7 *registered with the burn pit registry is updated*  
8 *with any information contained in such registry;*  
9 *and*

10          (B) *the Secretary of Veterans Affairs shall*  
11 *ensure that the electronic health record main-*  
12 *tained by such Secretary of a veteran registered*  
13 *with the burn pit registry is updated with any*  
14 *information contained in such registry.*

15          (2) *BURN PIT REGISTRY DEFINED.—In this sub-*  
16 *section, the term “burn pit registry” means the reg-*  
17 *istry established under section 201 of the Dignified*  
18 *Burial and Other Veterans’ Improvements Act of*  
19 *2012 (Public Law 112–260; 38 U.S.C. 527 note).*

20          (c) *POSTDEPLOYMENT MEDICAL EXAMINATION AND*  
21 *REASSESSMENTS.—*

22           (1) *ADDITIONAL REQUIREMENTS.—Section 1074f*  
23 *of title 10, United States Code is further amended by*  
24 *adding at the end the following new subsection:*

1       “(g)       *ADDITIONAL       REQUIREMENTS       FOR*  
2 *POSTDEPLOYMENT MEDICAL EXAMINATIONS AND HEALTH*  
3 *REASSESSMENTS.*—(1) *The Secretary of Defense shall—*

4               “(A) *standardize and make available to a pro-*  
5 *vider that conducts a postdeployment medical exam-*  
6 *ination or reassessment under the system described in*  
7 *subsection (a) questions relating to occupational and*  
8 *environmental health exposure; and*

9               “(B) *prior to an examination or reassessment of*  
10 *a member of the armed forces, require such provider*  
11 *to review information applicable to such member—*

12               “(i) *in a Periodic Occupational and Envi-*  
13 *ronmental Monitoring Summary (or any suc-*  
14 *cessor document); and*

15               “(ii) *on the Defense Occupational and En-*  
16 *vironmental Health Readiness System (or any*  
17 *successor system).*

18       “(2) *The Secretary shall ensure that the medical record*  
19 *of a member includes information on the external cause re-*  
20 *lating to a diagnosis of the member, including by associ-*  
21 *ating an external cause code (as issued under the Inter-*  
22 *national Statistical Classification of Diseases, 10th Revi-*  
23 *sion (or any successor revision)).”.*

1           (2) *EFFECTIVE DATE.*—*The amendments made*  
2           *by this subsection shall take effect 180 days after the*  
3           *date of the enactment of this Act.*

4           (d) *REPORT BY COMPTROLLER GENERAL OF THE*  
5           *UNITED STATES.*—*Not later than two years after the date*  
6           *of the enactment of this Act, the Comptroller General of the*  
7           *United States shall submit to the congressional defense com-*  
8           *mittees and the Committees on Veterans' Affairs of the*  
9           *House of Representatives and the Senate a report con-*  
10          *taining an evaluation of the implementation of this section*  
11          *(and the amendments made by this section), including an*  
12          *assessment of the extent to which the Secretary of Defense*  
13          *and Secretary of Veterans Affairs are in compliance with*  
14          *the applicable requirements of this section (and the amend-*  
15          *ments made by this section).*

16   **SEC. 707. MODIFICATIONS TO POST-DEPLOYMENT MENTAL**  
17                           **HEALTH ASSESSMENTS FOR MEMBERS OF**  
18                           **THE ARMED FORCES DEPLOYED IN SUPPORT**  
19                           **OF A CONTINGENCY OPERATION.**

20          (a) *REQUIRED ASSESSMENTS.*—*Section 1074m(a)(1)*  
21          *of title 10, United States Code, is amended by striking sub-*  
22          *paragraphs (C) and (D) and inserting the following new*  
23          *subparagraphs:*

24                           “(C) *Subject to paragraph (3) and sub-*  
25                           *section (d), once during the period beginning on*

1           *the date of redeployment from the contingency*  
2           *operation and ending 14 days after such rede-*  
3           *ployment date.*

4           “(D) Subject to subsection (d), not less than  
5           *once annually—*

6                   “(i) *beginning 14 days after the date of*  
7                   *redemption from the contingency oper-*  
8                   *ation; or*

9                   “(ii) *if the assessment required by sub-*  
10                   *paragraph (C) is performed during the pe-*  
11                   *riod specified in paragraph (3), beginning*  
12                   *180 days after the date of redeployment*  
13                   *from the contingency operation.”.*

14           (b) *EXCEPTIONS.—Section 1074m(a) of such title, as*  
15           *amended by subsection (a), is further amended by striking*  
16           *paragraph (2) and inserting the following new paragraphs:*

17                   “(2) *A mental health assessment is not required for*  
18                   *a member of the armed forces under subparagraphs (C) and*  
19                   *(D) of paragraph (1) (including an assessment performed*  
20                   *pursuant to paragraph (3)) if the Secretary determines that*  
21                   *providing such assessment to the member during the time*  
22                   *periods under such subparagraphs would remove the mem-*  
23                   *ber from forward deployment or put members or oper-*  
24                   *ational objectives at risk.*

1       “(3) *A mental health assessment required under sub-*  
2 *paragraph (C) of paragraph (1) may be provided during*  
3 *the period beginning 90 days after the date of redeployment*  
4 *from the contingency operation and ending 180 days after*  
5 *such redeployment date if the Secretary determines that—*

6               “(A) *an insufficient number of personnel are*  
7 *available to perform the assessment during the time*  
8 *period under such subparagraph; or*

9               “(B) *an administrative processing issue exists*  
10 *upon the return of the member to the home unit or*  
11 *duty station that would prevent the effective perform-*  
12 *ance of the assessment during such time period.”.*

13       (c) *EFFECTIVE DATE.—The amendments made by this*  
14 *section shall apply with respect to a date of redeployment*  
15 *that is on or after January 1, 2020.*

16 **SEC. 708. PROVISION OF BLOOD TESTING FOR FIRE-**  
17 **FIGHTERS OF DEPARTMENT OF DEFENSE TO**  
18 **DETERMINE EXPOSURE TO**  
19 **PERFLUOROALKYL AND POLYFLUOROALKYL**  
20 **SUBSTANCES.**

21       *The Secretary of Defense shall include, as part of the*  
22 *annual physical examination provided by the Secretary to*  
23 *each firefighter of the Department of Defense, blood testing*  
24 *to determine and document the potential exposure of such*

1 *firefighters to perfluoroalkyl and polyfluoroalkyl substances*  
2 *(commonly known as “PFAS”).*

3 ***Subtitle B—Health Care***  
4 ***Administration***

5 ***SEC. 711. REQUIREMENTS FOR CERTAIN PRESCRIPTION***  
6 ***DRUG LABELS.***

7 *(a) REQUIREMENT.—Section 1074g of title 10, United*  
8 *States Code, is amended—*

9 *(1) by redesignating subsections (h) and (i) as*  
10 *subsections (i) and (j), respectively; and*

11 *(2) by inserting after subsection (g) the following*  
12 *new subsection (h):*

13 *“(h) LABELING.—The Secretary of Defense shall ensure*  
14 *that drugs made available through the facilities of the*  
15 *armed forces under the jurisdiction of the Secretary include*  
16 *labels that—*

17 *“(1) are printed and physically located on or*  
18 *within the package from which the drug is to be dis-*  
19 *pensed; and*

20 *“(2) provide adequate directions for the purposes*  
21 *for which the drug is intended.”.*

22 *(b) CONFORMING AMENDMENT.—Subsection (b)(1) of*  
23 *such section is amended by striking “under subsection (h)”*  
24 *and inserting “under subsection (j)”.*

1           (c) *IMPLEMENTATION.*—Beginning not later than 90  
2 days after the date of the enactment of this Act, the Sec-  
3 retary of Defense shall implement subsection (h) of section  
4 1074g of title 10, United States Code, as added by sub-  
5 section (a).

6 **SEC. 712. OFFICERS AUTHORIZED TO COMMAND ARMY DEN-**  
7 **TAL UNITS.**

8           Section 7081(d) of title 10, United States Code, is  
9 amended by striking “Dental Corps Officer” and inserting  
10 “commissioned officer of the Army Medical Department”.

11 **SEC. 713. IMPROVEMENTS TO LEADERSHIP OF INTER-**  
12 **AGENCY PROGRAM OFFICE OF THE DEPART-**  
13 **MENT OF DEFENSE AND THE DEPARTMENT**  
14 **OF VETERANS AFFAIRS.**

15           Subsection (c) of section 1635 of the Wounded Warrior  
16 Act (title XVI of Public Law 110–181; 10 U.S.C. 1071 note)  
17 is amended to read as follows:

18           “(c) *LEADERSHIP.*—

19                   “(1) *DIRECTOR.*—The Director of the Office shall  
20 be the head of the Office.

21                   “(2) *DEPUTY DIRECTOR.*—The Deputy Director  
22 of the Office shall be the deputy head of the Office and  
23 shall assist the Director in carrying out the duties of  
24 the Director.

1           “(3) *REPORTING.*—*The Director shall report to*  
2 *the Department of Veterans Affairs-Department of*  
3 *Defense Joint Executive Committee established by sec-*  
4 *tion 320 of title 38, United States Code.*

5           “(4) *APPOINTMENTS.*—

6           “(A) *DIRECTOR.*—*The Director shall be*  
7 *jointly appointed by the Secretary of Veterans*  
8 *Affairs and the Secretary of Defense for a five-*  
9 *year term. The Director may be reappointed for*  
10 *one or more additional terms.*

11           “(B) *DEPUTY DIRECTOR.*—*The Deputy Di-*  
12 *rector shall be jointly appointed by the Secretary*  
13 *of Veterans Affairs and the Secretary of Defense*  
14 *for a five-year term. The Deputy Director may*  
15 *be reappointed for one or more additional terms.*

16           “(C) *ADVICE.*—*The Department of Veterans*  
17 *Affairs-Department of Defense Joint Executive*  
18 *Committee shall provide the Secretary of Vet-*  
19 *erans Affairs and the Secretary of Defense with*  
20 *advice regarding potential individuals to be ap-*  
21 *pointed Director and Deputy Director under*  
22 *subparagraphs (A) and (B), respectively.*

23           “(D) *MINIMUM QUALIFICATIONS.*—*The De-*  
24 *partment of Veterans Affairs-Department of De-*  
25 *fense Joint Executive Committee shall develop*

1           *qualification requirements for the office of the*  
2           *Director and the Deputy Director. Such require-*  
3           *ments shall ensure that, at a minimum, the Di-*  
4           *rector and Deputy Director, individually or to-*  
5           *gether, meet the following qualifications:*

6                     “(i) *Significant experience as a clini-*  
7                     *cian, at the level of chief medical officer or*  
8                     *equivalent.*

9                     “(ii) *Significant experience in health*  
10                    *informatics, at the level of chief health*  
11                    *informatics officer or equivalent.*

12                    “(iii) *Significant experience leading*  
13                    *implementation of enterprise-wide tech-*  
14                    *nology in a health care setting in the public*  
15                    *or private sector.*

16                    “(5) *ADDITIONAL GUIDANCE.—In addition to*  
17                    *providing direction, supervision, and control of the*  
18                    *Office pursuant to paragraph (3), the Department of*  
19                    *Veterans Affairs-Department of Defense Joint Execu-*  
20                    *tive Committee shall—*

21                             “(A) *provide guidance in the discharge of*  
22                             *the functions of the Office under this section; and*

23                             “(B) *facilitate the establishment of a charter*  
24                             *and mission statement for the Office.*

1           “(6) *INFORMATION TO CONGRESS.*—Upon request  
2           by any of the appropriate committees of Congress, the  
3           Director and the Deputy Director shall testify before  
4           such committee, or provide a briefing or otherwise  
5           provide requested information to such committee, re-  
6           garding the discharge of the functions of the Office  
7           under this section.”.

8   **SEC. 714. INCLUSION OF BLAST EXPOSURE HISTORY IN**  
9                           **MEDICAL RECORDS OF MEMBERS OF THE**  
10                          **ARMED FORCES.**

11           (a) *REQUIREMENT.*—The Secretary of Defense, in co-  
12           ordination with the Secretaries of the military departments,  
13           shall document blast exposure history in the medical record  
14           of a member of the Armed Forces to—

15                   (1) assist in determining whether a future illness  
16                   or injury of the member is service-connected; and

17                   (2) inform future blast exposure risk mitigation  
18                   efforts of the Department of Defense.

19           (b) *ELEMENTS.*—A blast exposure history under sub-  
20           section (a) shall include, at a minimum, the following:

21                   (1) The date of the exposure.

22                   (2) The duration of the exposure, and, if known,  
23                   the measured blast pressure experienced by the indi-  
24                   vidual during such exposure.

1           (3) *Whether the exposure occurred during combat*  
2           *or training.*

3           (4) *Such other information relating to the expo-*  
4           *sure as the Secretary of Defense may specify pursuant*  
5           *to the guidance described in subsection (c)(1).*

6           (c) *COLLECTION OF EXPOSURE INFORMATION.—The*  
7           *Secretary of Defense shall collect blast exposure information*  
8           *with respect to a member of the Armed Forces in a man-*  
9           *ner—*

10           (1) *consistent with blast exposure measurement*  
11           *training guidance of the Department, including any*  
12           *new guidance developed pursuant to—*

13                   (A) *the study on blast pressure exposure re-*  
14                   *quired by section 734 of the National Defense*  
15                   *Authorization Act for Fiscal Year 2018 (Public*  
16                   *Law 115–91; 131 Stat. 1444); and*

17                   (B) *the review of guidance on blast exposure*  
18                   *during training required by section 253 of the*  
19                   *John S. McCain National Defense Authorization*  
20                   *Act for Fiscal Year 2019 (Public Law 115–232;*  
21                   *132 Stat. 1704, 10 U.S.C. 2001 note);*

22           (2) *compatible with training and operational ob-*  
23           *jectives; and*

1           (3) *that is automated, to the extent practicable,*  
2           *to minimize the reporting burden of unit com-*  
3           *manders.*

4           (d) *REPORT.*—*Not later than one year after the date*  
5           *of the enactment of this Act, the Secretary of Defense shall*  
6           *submit to the Committees on Armed Services of the Senate*  
7           *and the House of Representatives a report on the types of*  
8           *information included in a blast exposure history under sub-*  
9           *section (a).*

10 **SEC. 715. COMPREHENSIVE POLICY FOR PROVISION OF**  
11                                   **MENTAL HEALTH CARE TO MEMBERS OF THE**  
12                                   **ARMED FORCES.**

13           (a) *POLICY REQUIRED.*—*Not later than 180 days after*  
14           *the date of the enactment of this Act, the Secretary of De-*  
15           *fense, acting through the Under Secretary of Defense for*  
16           *Personnel and Readiness, shall develop and implement a*  
17           *comprehensive policy for the provision of mental health care*  
18           *to members of the Armed Forces.*

19           (b) *ELEMENTS.*—*The policy under subsection (a) shall*  
20           *address each of the following:*

21                   (1) *The compliance of health professionals in the*  
22                   *military health system engaged in the provision of*  
23                   *health care services to members with clinical practice*  
24                   *guidelines for—*

25                                   (A) *suicide prevention;*

1                   (B) medication-assisted therapy for alcohol  
2                   use disorders; and

3                   (C) medication-assisted therapy for opioid  
4                   use disorders.

5                   (2) The access and availability of mental health  
6                   care services to members who are victims of sexual as-  
7                   sault or domestic violence.

8                   (3) The availability of naloxone reversal capa-  
9                   bility on military installations.

10                  (4) The promotion of referrals of members by ci-  
11                  vilian health care providers to military medical treat-  
12                  ment facilities when such members are—

13                         (A) at high risk for suicide and diagnosed  
14                         with a psychiatric disorder; or

15                         (B) receiving treatment for opioid use dis-  
16                         orders.

17                  (5) The provision of comprehensive behavioral  
18                  health treatment to members of the reserve compo-  
19                  nents that takes into account the unique challenges  
20                  associated with the deployment pattern of such mem-  
21                  bers and the difficulty such members encounter post-  
22                  deployment with respect to accessing such treatment  
23                  in civilian communities.

24                  (c) CONSIDERATION.—In developing the policy under  
25                  subsection (a), the Secretary of Defense shall solicit and

1 *consider recommendations from the Secretaries of the mili-*  
2 *tary departments and the Chairman of the Joint Chiefs of*  
3 *Staff regarding the feasibility of implementation and execu-*  
4 *tion of particular elements of the policy.*

5 *(d) REPORT.—Not later than 18 months after the date*  
6 *of the enactment of this Act, the Secretary of Defense shall*  
7 *submit to the Committees on Armed Services of the Senate*  
8 *and the House of Representatives a report on the implemen-*  
9 *tation of the policy under subsection (a).*

10 **SEC. 716. LIMITATION ON THE REALIGNMENT OR REDUC-**  
11 **TION OF MILITARY MEDICAL MANNING END**  
12 **STRENGTH.**

13 *(a) LIMITATION.—Except as provided by subsection*  
14 *(d), the Secretary of Defense and the Secretaries concerned*  
15 *may not realign or reduce military medical end strength*  
16 *authorizations until—*

17 *(1) each review is conducted under paragraph*  
18 *(1) of subsection (b);*

19 *(2) each analysis is conducted under paragraph*  
20 *(2) of such subsection;*

21 *(3) the measurement is developed under para-*  
22 *graph (3) of such subsection;*

23 *(4) each plan and forum is provided under para-*  
24 *graph (4) of such subsection; and*

1           (5) *a period of 90 days elapses following the date*  
2           *on which the Secretary submits the report under sub-*  
3           *section (c).*

4           (b) *REVIEWS, ANALYSES, AND OTHER INFORMA-*  
5           *TION.—*

6           (1) *REVIEW.—Each Secretary concerned, in co-*  
7           *ordination with the Chairman of the Joint Chiefs of*  
8           *Staff, shall conduct a review of the medical manpower*  
9           *requirements of the military department of the Sec-*  
10          *retary that accounts for all national defense strategy*  
11          *scenarios.*

12          (2) *ANALYSES.—With respect to each military*  
13          *medical treatment facility that would be affected by*  
14          *a proposed military medical end strength realignment*  
15          *or reduction, the Secretary concerned shall conduct an*  
16          *analysis that—*

17                  (A) *identifies affected billets; and*

18                  (B) *includes a plan for mitigating any po-*  
19                  *tential gap in health care services caused by such*  
20                  *realignment or reduction.*

21          (3) *MEASUREMENT.—The Secretary of Defense*  
22          *shall—*

23                  (A) *develop a standard measurement for*  
24                  *network adequacy to determine the capacity of*  
25                  *the local health care network to provide care for*

1 covered beneficiaries in the area of a military  
2 medical treatment facility that would be affected  
3 by a proposed military medical end strength re-  
4 alignment or reduction; and

5 (B) use such measurement in carrying out  
6 this section and otherwise evaluating proposed  
7 military medical end strength realignment or re-  
8 ductions.

9 (4) *OUTREACH.*—The Secretary of Defense shall  
10 provide to each member of the Armed Forces and cov-  
11 ered beneficiary located in the area of a military  
12 medical treatment facility that would be affected by  
13 a proposed military medical end strength realignment  
14 or reduction the following:

15 (A) A transition plan for continuity of  
16 health care services.

17 (B) A public forum to discuss the concerns  
18 of the member and covered beneficiary regarding  
19 such proposed realignment or reduction.

20 (c) *REPORT.*—Not later than 180 days after the date  
21 of the enactment of this Act, the Secretary of Defense shall  
22 submit to the Committees on Armed Services of the House  
23 of Representatives and the Senate a report on the proposed  
24 military medical end strength realignments or reductions,  
25 including—

1           (1) *the reviews, analyses, and other information*  
2           *developed under subsection (b); and*

3           (2) *a description of the actions the Secretary*  
4           *plans to take with respect to such proposed realign-*  
5           *ments or reductions.*

6           (d) *EXCEPTION.—The limitation in subsection (a)*  
7           *shall not apply to billets of a medical department of a mili-*  
8           *tary department that have remained unfilled since at least*  
9           *October 1, 2018. The Secretary concerned may realign or*  
10           *reduce such a billet if the Secretary determines that such*  
11           *realignment or reduction does not affect the provision of*  
12           *health care services to members of the Armed Forces or cov-*  
13           *ered beneficiaries.*

14           (e) *DEFINITIONS.—In this section:*

15           (1) *The term “covered beneficiary” has the*  
16           *meaning given that term in section 1072 of title 10,*  
17           *United States Code.*

18           (2) *The term “proposed military medical end*  
19           *strength realignment or reduction” means a realign-*  
20           *ment or reduction of military medical end strength*  
21           *authorizations as proposed by the budget of the Presi-*  
22           *dent for fiscal year 2020 submitted to Congress pursu-*  
23           *ant to section 1105 of title 31, United States Code.*

24           (3) *The term “Secretary concerned” means—*

1           (A) the Secretary of the Army, with respect  
2           to matters concerning the Army;

3           (B) the Secretary of the Navy, with respect  
4           to matters concerning the Navy, the Marine  
5           Corps, and the Coast Guard when it is operating  
6           as a service in the Department of the Navy; and

7           (C) the Secretary of the Air Force, with re-  
8           spect to matters concerning the Air Force.

9   **SEC. 717. STRATEGY TO RECRUIT AND RETAIN MENTAL**  
10           **HEALTH PROVIDERS.**

11           Not later than 180 days after the date of the enactment  
12           of this Act, the Secretary of Defense shall submit to the con-  
13           gressional defense committees a report that—

14           (1) describes the shortage of mental health pro-  
15           viders of the Department of Defense;

16           (2) explains the reasons for such shortage;

17           (3) explains the effect of such shortage on mem-  
18           bers of the Armed Forces; and

19           (4) contains a strategy to better recruit and re-  
20           tain mental health providers, including with respect  
21           to psychiatrists, psychologists, mental health nurse  
22           practitioners, licensed social workers, and other li-  
23           censed providers of the military health system.

1 **SEC. 718. MONITORING MEDICATION PRESCRIBING PRACTICES FOR THE TREATMENT OF POST-TRAUMATIC STRESS DISORDER.**

2  
3  
4 (a) *REPORT.*—

5 (1) *IN GENERAL.*—Not later than 180 days after  
6 the date of enactment of this Act, the Secretary of De-  
7 fense shall submit to the Committees on Armed Serv-  
8 ices of the House of Representatives and the Senate a  
9 report on the practices for prescribing medication  
10 during the period beginning January 1, 2012, and  
11 ending December 31, 2017, that were inconsistent  
12 with the post-traumatic stress disorder medication  
13 guidelines developed by the Department of Defense  
14 and the Veterans Health Administration.

15 (2) *CONTENTS.*—The report under this subsection  
16 shall include the following:

17 (A) A summary of the practices of the  
18 Army, Navy, and the Air Force, for prescribing  
19 medication during the period referred to in  
20 paragraph (1) that were inconsistent with the  
21 post-traumatic stress disorder medication guide-  
22 lines developed by the Department of Defense  
23 and the Veterans Health Administration.

24 (B) Identification of medical centers serving  
25 members of the Armed Forces found to having  
26 higher than average incidences of prescribing

1           *medication during the period referred to in*  
2           *paragraph (1) that were inconsistent with the*  
3           *post-traumatic stress disorder guidelines.*

4           *(C) A plan for such medical centers to re-*  
5           *duce the prescribing of medications that are in-*  
6           *consistent with the post-traumatic stress disorder*  
7           *guidelines.*

8           *(D) A plan for ongoing monitoring of med-*  
9           *ical centers found to have higher than average*  
10          *incidences of prescribing medication that were*  
11          *inconsistent with the post-traumatic stress dis-*  
12          *order guidelines by the Department of Defense*  
13          *and the Veterans Health Administration.*

14          *(b) MONITORING PROGRAM.—Based on the findings of*  
15          *the report under subsection (a), the Secretaries of the Army,*  
16          *the Navy, and the Air Force shall each establish a moni-*  
17          *toring program carried out with respect to such branch of*  
18          *the Armed Forces that shall provide as follows:*

19                 *(1) The monitoring program shall provide for the*  
20                 *conduct of periodic reviews, beginning October 1,*  
21                 *2019, of medication prescribing practices of its own*  
22                 *providers.*

23                 *(2) The monitoring program shall provide for*  
24                 *regular reports, beginning October 1, 2020, to the De-*  
25                 *partment of Defense and the Veterans Health Admin-*

1        *istration, of the results of the periodic reviews pursu-*  
2        *ant to paragraph (1) of this subsection.*

3            *(3) The monitoring program shall establish in-*  
4        *ternal procedures, not later than October 1, 2020, to*  
5        *address practices for prescribing medication that are*  
6        *inconsistent with the post-traumatic stress disorder*  
7        *medication guidelines developed by the Department of*  
8        *Defense and the Veterans Health Administration.*

9            ***Subtitle C—Reports and Other***  
10           ***Matters***

11 ***SEC. 721. ESTABLISHMENT OF MILITARY DENTAL RE-***  
12           ***SEARCH PROGRAM.***

13        *(a) IN GENERAL.—Chapter 104 of title 10, United*  
14        *States Code, is amended by inserting after section 2116 the*  
15        *following new section:*

16        ***“§2116a. Military dental research***

17           *“(a) DEFINITIONS.—In this section:*

18           *“(1) The term ‘military dental research’ means*  
19        *research on the furnishing of dental care and services*  
20        *by dentists in the armed forces.*

21           *“(2) The term ‘TriService Dental Research Pro-*  
22        *gram’ means the program of military dental research*  
23        *authorized under this section.*

1           “(b) *PROGRAM AUTHORIZED.*—*The Secretary of De-*  
2 *fense may establish at the University a program of military*  
3 *dental research.*

4           “(c) *TRISERVICE RESEARCH GROUP.*—*The TriService*  
5 *Dental Research Program shall be administered by a*  
6 *TriService Dental Research Group composed of Army,*  
7 *Navy, and Air Force dentists who are involved in military*  
8 *dental research and are designated by the Secretary con-*  
9 *cerned to serve as members of the group.*

10          “(d) *DUTIES OF GROUP.*—*The TriService Dental Re-*  
11 *search Group described in subsection (c) shall—*

12                   “(1) *develop for the Department of Defense rec-*  
13 *ommended guidelines for requesting, reviewing, and*  
14 *funding proposed military dental research projects;*  
15 *and*

16                   “(2) *make available to Army, Navy, and Air*  
17 *Force dentists and officials of the Department of De-*  
18 *fense who conduct military dental research—*

19                           “(A) *information about dental research*  
20 *projects that are being developed or carried out*  
21 *in the Army, Navy, and Air Force; and*

22                           “(B) *expertise and information beneficial to*  
23 *the encouragement of meaningful dental research.*

1       “(e) *RESEARCH TOPICS.*—For purposes of this section,  
2 *military dental research includes research on the following*  
3 *issues:*

4               “(1) *Issues regarding how to ensure the readiness*  
5 *of members of the armed forces on active duty and in*  
6 *the reserve components with respect to the provision*  
7 *of dental care and services.*

8               “(2) *Issues regarding preventive dentistry and*  
9 *disease management, including early detection of*  
10 *needs.*

11              “(3) *Issues regarding how to improve the results*  
12 *of dental care and services provided in the armed*  
13 *forces in time of peace.*

14              “(4) *Issues regarding how to improve the results*  
15 *of dental care and services provided in the armed*  
16 *forces in time of war.*

17              “(5) *Issues regarding minimizing or eliminating*  
18 *emergent dental conditions and dental disease and*  
19 *non-battle injuries in deployed settings.*

20              “(6) *Issues regarding how to prevent complica-*  
21 *tions associated with dental-related battle injuries.*

22              “(7) *Issues regarding how to prevent complica-*  
23 *tions associated with the transportation of dental pa-*  
24 *tients in the military medical evacuation system.*



1 *the opportunity to cryopreserve and store their gametes*  
2 *prior to deployment to a combat zone.*

3 (b) *PERIOD.*—

4 (1) *IN GENERAL.*—*The Secretary shall provide*  
5 *for the cryopreservation and storage of gametes of a*  
6 *participating member of the Armed Forces under sub-*  
7 *section (a), at no cost to the member, in a facility of*  
8 *the Department of Defense or at a private entity pur-*  
9 *suant to a contract under subsection (d) until the*  
10 *date that is one year after the retirement, separation,*  
11 *or release of the member from the Armed Forces.*

12 (2) *CONTINUED CRYOPRESERVATION AND STOR-*  
13 *AGE.*—*At the end of the one-year period specified in*  
14 *paragraph (1), the Secretary shall authorize an indi-*  
15 *vidual whose gametes were cryopreserved and stored*  
16 *in a facility of the Department as described in that*  
17 *paragraph to select, including pursuant to an ad-*  
18 *vance medical directive or military testamentary in-*  
19 *strument completed under subsection (c), one of the*  
20 *following options:*

21 (A) *To continue such cryopreservation and*  
22 *storage in such facility with the cost of such*  
23 *cryopreservation and storage borne by the indi-*  
24 *vidual.*

1           (B) *To transfer the gametes to a private*  
2           *cryopreservation and storage facility selected by*  
3           *the individual.*

4           (C) *To authorize the Secretary to dispose of*  
5           *the gametes of the individual not earlier than the*  
6           *date that is 90 days after the end of the one-year*  
7           *period specified in paragraph (1) with respect to*  
8           *the individual.*

9           (c) *ADVANCE MEDICAL DIRECTIVE AND MILITARY*  
10          *TESTAMENTARY INSTRUMENT.—A member of the Armed*  
11          *Forces who elects to cryopreserve and store their gametes*  
12          *under this section shall complete an advance medical direc-*  
13          *tive described in section 1044c(b) of title 10, United States*  
14          *Code, and a military testamentary instrument described in*  
15          *section 1044d(b) of such title, that explicitly specifies the*  
16          *use of their cryopreserved and stored gametes if such mem-*  
17          *ber dies or otherwise loses the capacity to consent to the*  
18          *use of their cryopreserved and stored gametes.*

19          (d) *AGREEMENTS.—To carry out this section, the Sec-*  
20          *retary may enter into agreements with private entities that*  
21          *provide cryopreservation and storage services for gametes.*

1 **SEC. 723. ENCOURAGEMENT OF PARTICIPATION IN WOM-**  
2 **EN'S HEALTH TRANSITION TRAINING PILOT**  
3 **PROGRAM.**

4 (a) *ENCOURAGEMENT OF PARTICIPATION.*—*The Secre-*  
5 *taries of the military departments shall encourage female*  
6 *members of the Armed Forces who are separating or retiring*  
7 *from the Armed Forces during fiscal year 2020 to partici-*  
8 *pate in the Women's Health Transition Training pilot pro-*  
9 *gram (in this section referred to as the "pilot program")*  
10 *administered by the Secretary of Veterans Affairs.*

11 (b) *SELECTION.*—*Each Secretary of a military depart-*  
12 *ment shall select at least one location at which the pilot*  
13 *program is offered and encourage participation in the pilot*  
14 *program at such location.*

15 (c) *REPORT.*—*Not later than September 30, 2020, the*  
16 *Secretary of Defense, in consultation with the Secretary of*  
17 *Veterans Affairs, shall submit to the Committees on Armed*  
18 *Services of the Senate and the House of Representatives and*  
19 *the Committees on Veterans' Affairs of the Senate and*  
20 *House of Representatives a report on the pilot program that*  
21 *includes the following:*

22 (1) *For the period since the commencement of the*  
23 *pilot program—*

24 (A) *the number of courses held under the*  
25 *pilot program;*

1           (B) the locations at which such courses were  
2 held; and

3           (C) for each location identified in subpara-  
4 graph (B)—

5                 (i) the number of female members by  
6 military department (with respect to De-  
7 partment of the Navy, separately for the  
8 Navy and Marine Corps) who participated  
9 in the pilot program; and

10                (ii) the number of seats available  
11 under the pilot program.

12           (2) Data relating to—

13                 (A) satisfaction with courses held under the  
14 pilot program;

15                 (B) improved awareness of health care serv-  
16 ices administered by the Secretary of Veterans  
17 Affairs; and

18                 (C) any other available statistics regarding  
19 the pilot program.

20           (3) A discussion of regulatory, legal, or resource  
21 barriers to—

22                 (A) making the pilot program permanent to  
23 enable access by a greater number of female  
24 members at locations throughout the United  
25 States;

1           (B) offering the pilot program online for fe-  
2           male members who are unable to attend courses  
3           held under the pilot program in person; and

4           (C) providing for automatic enrollment of  
5           participants in the pilot program in the patient  
6           enrollment system of the Department of Veterans  
7           Affairs established and operated under section  
8           1705 of title 38, United States Code.

9   **SEC. 724. NATIONAL GUARD SUICIDE PREVENTION PILOT**  
10           **PROGRAM.**

11           (a) *PILOT PROGRAM AUTHORIZED.*—The Chief of the  
12           National Guard Bureau may carry out a pilot program  
13           to expand suicide prevention and intervention efforts at the  
14           community level through the use of a mobile application  
15           that provides the capability for a member of the National  
16           Guard to receive prompt support, including access to a be-  
17           havioral health professional, on a smartphone, tablet com-  
18           puter, or other handheld mobile device.

19           (b) *ELEMENTS.*—The pilot program shall include, sub-  
20           ject to such conditions as the Secretary may prescribe—

21                   (1) the use by members of the National Guard of  
22                   an existing mobile application that provides the capa-  
23                   bility described in subsection (a); or

24                   (2) the development and use of a new mobile ap-  
25                   plication that provides such capability.

1       (c) *ELIGIBILITY AND PARTICIPATION REQUIRE-*  
2 *MENTS.—The Chief of the National Guard Bureau shall es-*  
3 *tablish requirements with respect to eligibility and partici-*  
4 *pation in the pilot program.*

5       (d) *ASSESSMENT PRIOR TO PILOT PROGRAM COM-*  
6 *MENCEMENT.—Prior to commencement of the pilot pro-*  
7 *gram, the Chief of the National Guard Bureau shall—*

8           (1) *conduct an assessment of existing prevention*  
9 *and intervention efforts of the National Guard in*  
10 *each State that include the use of mobile applications*  
11 *that provide the capability described in subsection (a)*  
12 *to determine best practices for providing immediate*  
13 *and localized care through the use of such mobile ap-*  
14 *plications; and*

15           (2) *determine the feasibility of expanding exist-*  
16 *ing programs on a national scale.*

17       (e) *RESPONSIBILITIES OF ENTITIES PARTICIPATING IN*  
18 *PILOT PROGRAM.—Each entity that participates in the*  
19 *pilot program shall—*

20           (1) *share best practices with other entities par-*  
21 *ticipating in the program; and*

22           (2) *annually assess outcomes with respect to*  
23 *members of the National Guard.*

1       (f) *TERM.*—*The pilot program shall terminate on the*  
2 *date that is three years after the date on which the pilot*  
3 *program commenced.*

4       (g) *REPORTS.*—

5           (1) *INITIAL REPORT.*—*If the Chief of the Na-*  
6 *tional Guard Bureau commences the pilot program*  
7 *authorized under subsection (a), not later than 180*  
8 *days after the date of the commencement of such pro-*  
9 *gram, the Chief shall submit to the Committees on*  
10 *Armed Services of the Senate and the House of Rep-*  
11 *resentatives a report containing a description of the*  
12 *pilot program and such other matters as the Chief*  
13 *considers appropriate.*

14           (2) *FINAL REPORT.*—

15           (A) *IN GENERAL.*—*Not later than 180 days*  
16 *after the termination of the pilot program, the*  
17 *Chief of the National Guard Bureau shall submit*  
18 *to the Committees on Armed Services of the Sen-*  
19 *ate and the House of Representatives a report on*  
20 *such pilot program.*

21           (B) *MATTERS INCLUDED.*—*The report*  
22 *under subparagraph (A) shall include the fol-*  
23 *lowing:*

24           (i) *A description of the pilot program,*  
25 *including any partnerships entered into by*



1 *through January 31, 2021, the Secretary of Defense shall*  
2 *submit to the Committees on Armed Services of the House*  
3 *of Representatives and the Senate a report on suicide*  
4 *among members of the Armed Forces during the year pre-*  
5 *ceding the date of the report.*

6 (b) *MATTERS INCLUDED.—Each report under sub-*  
7 *section (a) shall include the following with respect to the*  
8 *year covered by the report:*

9 (1) *The number of suicides, attempted suicides,*  
10 *and occurrences of suicidal ideation involving a mem-*  
11 *ber of the Armed Forces, including the reserve compo-*  
12 *nents thereof, listed by Armed Force.*

13 (2) *The number of suicides, attempted suicides,*  
14 *or suicidal ideation identified under paragraph (1)*  
15 *that occurred during each of the following periods:*

16 (A) *The first 180 days of the member serv-*  
17 *ing in the Armed Forces.*

18 (B) *The period in which the member is de-*  
19 *ployed in support of a contingency operation.*

20 (3) *With respect to the number of suicides, at-*  
21 *tempted suicides, or suicidal ideation identified under*  
22 *paragraph (2)(A), the initial recruit training location*  
23 *of the member.*

24 (4) *The number of suicides involving a depend-*  
25 *ent of a member.*

1           (5) *A description of any research collaborations*  
2 *and data sharing by the Department of Defense with*  
3 *the Department of Veterans Affairs, other departments*  
4 *or agencies of the Federal Government, academic in-*  
5 *stitutions, or nongovernmental organizations.*

6           (6) *Identification of a research agenda for the*  
7 *Department of Defense to improve the evidence base*  
8 *on effective suicide prevention treatment and risk*  
9 *communication.*

10          (7) *A description of the effectiveness of the poli-*  
11 *cies developed pursuant to section 567 of the Carl*  
12 *Levin and Howard P. “Buck” McKeon National De-*  
13 *fense Authorization Act for Fiscal Year 2015 (Public*  
14 *Law 113–291; 10 U.S.C. 1071 note) and section 582*  
15 *of the National Defense Authorization Act for Fiscal*  
16 *Year 2013 (Public Law 112–239; 10 U.S.C. 1071*  
17 *note), including with respect to—*

18           (A) *metrics identifying effective treatment*  
19 *modalities for members of the Armed Forces who*  
20 *are at risk for suicide (including any clinical*  
21 *interventions involving early identification and*  
22 *treatment of such members);*

23           (B) *metrics for the rate of integration of*  
24 *mental health screenings and suicide risk and*

1           *prevention for members during the delivery of*  
2           *primary care for such members;*

3           *(C) metrics relating to the effectiveness of*  
4           *suicide prevention and resilience programs and*  
5           *preventative behavioral health programs of the*  
6           *Department of Defense (including those of the*  
7           *military departments and the Armed Forces);*  
8           *and*

9           *(D) metrics evaluating the training stand-*  
10          *ards for behavioral health care providers to en-*  
11          *sure that such providers have received training*  
12          *on clinical best practices and evidence-based*  
13          *treatments.*

14 **SEC. 726. STUDY ON MILITARY-CIVILIAN INTEGRATED**  
15           **HEALTH DELIVERY SYSTEMS.**

16          *(a) STUDY.—The Secretary of Defense shall conduct a*  
17          *study on the use of local integrated military-civilian inte-*  
18          *grated health delivery systems pursuant to section 706 of*  
19          *the National Defense Authorization Act for Fiscal Year*  
20          *2017 (Public Law 114–328; 10 U.S.C. 1096 note). The*  
21          *study shall examine the following:*

22                 *(1) Geographic locations where military medical*  
23                 *treatment facilities have existing contractual relation-*  
24                 *ships with local civilian health care networks, includ-*  
25                 *ing Fort Drum, New York, Joint Base McGuire-Dix-*

1        *Lakehurst, New Jersey, Joint Base Lewis-McCord,*  
2        *Washington, Fort Leonard Wood, Missouri, Elmen-*  
3        *dorf Air Force Base, Alaska, Fort Sill, Oklahoma,*  
4        *Tripler Army Medical Center, Hawaii, the National*  
5        *Capital Region, and similar locations.*

6            (2) *Health care activities that promote value-*  
7        *based care, measurable health outcomes, patient safe-*  
8        *ty, timeliness of referrals, and transparent commu-*  
9        *nication with covered beneficiaries.*

10           (3) *Locations where health care providers of the*  
11        *Department of Defense may be able to attain critical*  
12        *wartime readiness skills in a local integrated mili-*  
13        *tary-civilian integrated health delivery system.*

14           (4) *The cost of providing care under an inte-*  
15        *grated military-civilian integrated health delivery*  
16        *system as compared to health care provided by a*  
17        *managed care support contractor.*

18           (b) *SUBMISSION.*—*Not later than 180 days after the*  
19        *date of the enactment of this Act, the Secretary of Defense*  
20        *shall submit to the Committees on Armed Services of the*  
21        *House of Representatives and the Senate a report on the*  
22        *results of the study under subsection (a).*

23           (c) *DEFINITIONS.*—*In this section:*

1           (1) *The term “covered beneficiaries” has the*  
2           *meaning given that term in section 1072 of title 10,*  
3           *United States Code.*

4           (2) *The term “National Capital Region” has the*  
5           *meaning given that term in section 2674 of title 10,*  
6           *United States Code.*

7   **SEC. 727. STUDY ON CASE MANAGEMENT AT MILITARY MED-**  
8                                   **ICAL TREATMENT FACILITIES.**

9           (a) *STUDY.—The Secretary of Defense shall conduct a*  
10          *study on the effectiveness of case management practices at*  
11          *military medical treatment facilities. The study shall in-*  
12          *clude the following:*

13               (1) *A standardized definition of case manage-*  
14               *ment.*

15               (2) *An evaluation of case management practices*  
16               *provided by the military departments before and dur-*  
17               *ing the transition of the administration of military*  
18               *medical treatment facilities to the Defense Health*  
19               *Agency pursuant to section 1073c of title 10, United*  
20               *States Code.*

21               (3) *A discussion of the metrics involved with de-*  
22               *termining the effectiveness of case management and*  
23               *the cost of case management.*

24               (4) *A review of case management best practices*  
25               *in the private sector, including with respect to—*



1 *of infertility among members of the Armed Forces, includ-*  
2 *ing the reserve components thereof.*

3 (b) *MATTERS INCLUDED.—The study shall include the*  
4 *following:*

5 (1) *The number of members of the Armed Forces*  
6 *serving as of the date of the study who are diagnosed*  
7 *with common causes of infertility, such as polycystic*  
8 *ovary syndrome, pelvic inflammatory disease, uterine*  
9 *fibroids, endometriosis, sexually transmitted disease,*  
10 *testicular disorders, and male endocrine disorders.*

11 (2) *The number of members serving as of the*  
12 *date of the study whose infertility has no known*  
13 *cause.*

14 (3) *The incidence of miscarriage among women*  
15 *members, listed by Armed Force and military occupa-*  
16 *tion.*

17 (4) *A comparison of the rates of infertility and*  
18 *miscarriage in the Armed Forces to such rates in the*  
19 *civilian population, as reported by the Centers for*  
20 *Disease Control and Prevention.*

21 (5) *Demographic information of the members de-*  
22 *scribed in paragraphs (1), (2), and (3), include with*  
23 *respect to race, ethnicity, sex, age, military occupa-*  
24 *tion, and possible exposures during military service to*

1        *hazardous elements such as chemical and biologic*  
2        *agents.*

3                *(6) An assessment of the ease or delay for mem-*  
4        *bers in obtaining treatment for infertility, including*  
5        *in vitro fertilization, including—*

6                        *(A) the wait times at each military medical*  
7        *treatment facility that has community partner-*  
8        *ships to provide in vitro fertilization;*

9                        *(B) the number of members described in*  
10        *paragraph (1) who are candidates for in vitro*  
11        *fertilization or other infertility treatments but*  
12        *cannot obtain such treatments because of the lo-*  
13        *cation at which the member is stationed or the*  
14        *duties of the member; and*

15                        *(C) a discussion of the reasons members*  
16        *cease seeking such treatments through the mili-*  
17        *tary health system.*

18                *(7) Criteria used by the Secretary to determine*  
19        *service connection for infertility, including whether*  
20        *screenings for levels of toxins are undertaken when the*  
21        *cause of infertility cannot be determined.*

22                *(8) The policy of the Department of Defense, as*  
23        *of the date of the study, for ensuring geographic sta-*  
24        *bility during treatment of women members under-*

1       going in vitro fertilization for either service-connected  
2       or non-service-connected infertility.

3       **TITLE VIII—ACQUISITION POL-**  
4       **ICY, ACQUISITION MANAGE-**  
5       **MENT, AND RELATED MAT-**  
6       **TERS**

7       ***Subtitle A—Acquisition Policy and***  
8       ***Management***

9       **SEC. 801. ESTABLISHMENT OF ACQUISITION PATHWAYS**  
10       **FOR SOFTWARE APPLICATIONS AND SOFT-**  
11       **WARE UPGRADES.**

12       (a) *GUIDANCE REQUIRED.*—Not later than March 1,  
13 2020, the Secretary of Defense shall establish guidance au-  
14 thorizing the use of acquisition pathways described in sub-  
15 section (b) for the rapid acquisition of software applications  
16 and software upgrades that are intended to be fielded within  
17 one year. A contract awarded under this section—

18               (1) shall be in an amount equal to or less than  
19 \$50,000,000; and

20               (2) may be entered into for a period of not more  
21 than one year.

22       (b) *SOFTWARE ACQUISITION PATHWAYS.*—The guid-  
23 ance required by subsection (a) shall provide for the use  
24 of the following two acquisition pathways:

1           (1) *APPLICATIONS.*—*The applications pathway*  
2 *shall provide for the use of rapid development and*  
3 *implementation of software applications to be used*  
4 *with commercially available hardware.*

5           (2) *UPGRADES.*—*The upgrades pathway shall*  
6 *provide for the rapid development and insertion of*  
7 *software upgrades for embedded weapon systems or*  
8 *another hardware system solely used by the Depart-*  
9 *ment of Defense.*

10          (c) *GENERAL REQUIREMENTS.*—*The guidance re-*  
11 *quired by subsection (a) shall provide for—*

12           (1) *the use of proven technologies and solutions*  
13 *to continuously engineer, update, and deliver capa-*  
14 *bilities in software; and*

15           (2) *a streamlined and coordinated requirements,*  
16 *budget, and acquisition process that results in the*  
17 *rapid fielding of software applications and software*  
18 *upgrades.*

19          (d) *EXPEDITED PROCESS.*—

20           (1) *IN GENERAL.*—*An acquisition conducted*  
21 *under the guidance required by subsection (a) shall*  
22 *not be subject to the Joint Capabilities Integration*  
23 *and Development System Manual and Department of*  
24 *Defense Directive 5000.01, except to the extent specifi-*  
25 *cally provided in such guidance.*

1           (2) *REQUIREMENTS PROCESS.*—*The guidance re-*  
2           *quired by subsection (a) shall provide that the re-*  
3           *quirements for acquisition of software applications*  
4           *and software upgrades—*

5                   (A) *are developed, refined, and prioritized*  
6                   *on an iterative basis through continuous partici-*  
7                   *pation and collaboration by users, testers, and*  
8                   *requirements authorities;*

9                   (B) *include an identification of the need*  
10                  *for, and users of, the software to be acquired and*  
11                  *a rationale for how the software will support in-*  
12                  *creased efficiency of the Department of Defense;*

13                  (C) *are stated in the form of a summary-*  
14                  *level list of vulnerabilities in existing software*  
15                  *systems and desired features or capabilities of*  
16                  *the software to be acquired; and*

17                  (D) *consider issues related to lifecycle costs,*  
18                  *systems interoperability, and logistics support if*  
19                  *the developer of the software to be acquired stops*  
20                  *providing support.*

21           (4) *EXECUTION OF RAPID ACQUISITIONS.*—*The*  
22           *Secretary shall ensure that—*

23                   (A) *an acquisition conducted under the*  
24                   *guidance required by subsection (a) is supported*  
25                   *by an entity capable of regular automated test-*

1            *ing of the source code of the software to be ac-*  
2            *quired and that such entity is authorized to buy*  
3            *storage, bandwidth, and computing capability as*  
4            *necessary;*

5            *(B) the Department of Defense can collect*  
6            *and analyze the testing data described in sub-*  
7            *paragraph (A) to make decisions regarding soft-*  
8            *ware acquisition and oversight;*

9            *(C) the Director of Operational Test and*  
10           *Evaluation and the project manager appointed*  
11           *under paragraph (5) design test cases to ensure*  
12           *that the entity described in subparagraph (A)*  
13           *can test the software to be acquired to ensure*  
14           *such software meets the requirements of the con-*  
15           *tract;*

16           *(D) the project manager appointed under*  
17           *paragraph (5) closely monitors the progress of an*  
18           *acquisition conducted under the guidance re-*  
19           *quired by subsection (a);*

20           *(E) an independent cost estimate is con-*  
21           *ducted that considers—*

22                   *(i) the iterative process of the develop-*  
23                   *ment of the software to be acquired; and*

24                   *(ii) the long-term value of the software*  
25                   *to be acquired to the Department of Defense,*

1                   not based on the value of individual lines of  
2                   source code of the software;

3                   (F) the performance of fielded versions of  
4                   the software to be acquired are demonstrated and  
5                   evaluated in an operational environment; and

6                   (G) performance metrics of the software to  
7                   be acquired, such as metrics relating to when the  
8                   software can be fielded, delivery capabilities of  
9                   the software (including speed of recovery from  
10                  outages and cybersecurity vulnerabilities), and  
11                  assessments and estimations of the size and com-  
12                  plexity of such software, are automatically gen-  
13                  erated on a continuous basis and made available  
14                  to the Department of Defense and the congres-  
15                  sional defense committees.

16                  (5) ADMINISTRATION OF SOFTWARE ACQUISITION  
17                  PATHWAYS.—The guidance required by subsection (a)  
18                  may provide for the use of any of the following  
19                  streamlined procedures:

20                  (A) The service acquisition executive of the  
21                  military department concerned shall appoint a  
22                  project manager for each acquisition of software  
23                  applications and software upgrades, as deter-  
24                  mined by the service acquisition executive. Such  
25                  project manager shall be appointed from among

1           *civilian employees or members of the Armed*  
2           *Forces who have significant and relevant experi-*  
3           *ence in current software processes.*

4           *(B) Each project manager shall report with*  
5           *respect to such acquisition directly, and without*  
6           *intervening review or approval, to the service ac-*  
7           *quisition executive of the military department*  
8           *concerned.*

9           *(C) The service acquisition executive of the*  
10           *military department concerned shall evaluate the*  
11           *job performance of such manager on an annual*  
12           *basis. In conducting an evaluation under this*  
13           *paragraph, a service acquisition executive shall*  
14           *consider the extent to which the manager has*  
15           *achieved the objectives of the acquisition for*  
16           *which the manager is responsible, including*  
17           *quality, timeliness, and cost objectives.*

18           *(D) The project manager shall be authorized*  
19           *staff positions for a technical staff, including ex-*  
20           *perts in software engineering to enable the man-*  
21           *ager to manage the acquisition without the tech-*  
22           *anical assistance of another organizational unit of*  
23           *an agency to the maximum extent practicable.*

24           *(E) The project manager shall be author-*  
25           *ized, in coordination with the users and testers*

1           *of the software to be acquired, to make tradeoffs*  
2           *among lifecycle costs, requirements, and sched-*  
3           *ules to meet the goals of the acquisition.*

4           *(F) The service acquisition executive or the*  
5           *Under Secretary of Defense for Acquisition and*  
6           *Sustainment, as applicable, shall serve as the de-*  
7           *cision authority for the acquisition.*

8           *(G) The project manager of a defense*  
9           *streamlined acquisition shall be provided a proc-*  
10          *ess to expeditiously seek a waiver from Congress*  
11          *from any statutory or regulatory requirement*  
12          *that the project manager determines adds little*  
13          *or no value to the management of the acquisi-*  
14          *tion.*

15          *(e) CONTRACT TERMS.—*

16           *(1) IN GENERAL.—A contract entered into pur-*  
17          *suant to the guidance required by subsection (a)—*

18            *(A) may be awarded within a 90-day pe-*  
19          *riod after solicitation on the basis of—*

20              *(i) statements of qualifications and*  
21              *past performance data submitted by*  
22              *offerors; and*

23              *(ii) discussions with two or more*  
24              *qualified offerors without regard to price;*

25            *(B) may be a time-and-materials contract;*

1           (C) shall be treated as a contract for the ac-  
2           quisition of commercial services (as defined in  
3           section 103a of title 41, United States Code, as  
4           in effect on January 1, 2020);

5           (D) shall identify the individuals to per-  
6           form the work of the contract, and such individ-  
7           uals may not be replaced without the advance  
8           written consent of the contracting officer; and

9           (E) may allow for a contractor performing  
10          the work of the contract to review existing soft-  
11          ware in consultation with the user community  
12          and incorporate user feedback to—

13                 (i) define and prioritize software re-  
14                 quirements; and

15                 (ii) design and implement new soft-  
16                 ware applications and software upgrades.

17          (2) *OPTIONS.*—A contract entered into pursuant  
18          to the guidance required by subsection (a) may con-  
19          tain an option to extend the contract once, for a pe-  
20          riod not to exceed one year, to complete the implemen-  
21          tation of one or more specified software applications  
22          and software upgrades identified during the period of  
23          the initial contract. Such an option may not be in an  
24          amount greater than \$100,000,000 and—

1           (A) if the option is a time-and-materials  
2 contract, it shall be treated as a contract for the  
3 acquisition of commercial services (as defined in  
4 section 103a of title 41, United States Code); and

5           (B) if the option is a fixed-price contract,  
6 it shall be treated as a contract for the acquisi-  
7 tion of commercial products (as defined in sec-  
8 tion 103 of title 41, United States Code).

9       (f) *RULE OF CONSTRUCTION.*—Nothing in this section  
10 shall be deemed to prevent the use of other methods of acqui-  
11 sition to procure software applications and upgrades.

12       (g) *CONFORMING AMENDMENT.*—Section 2430(a)(2) of  
13 title 10, United States Code, is amended—

14           (1) in subparagraph (A), by striking “or” at the  
15 end;

16           (2) in subparagraph (B), by striking the period  
17 at the end and inserting “; or”; and

18           (3) by adding at the end the following new sub-  
19 paragraph:

20           “(C) an acquisition program for software  
21 applications and software upgrades carried out  
22 using the acquisition guidance issued pursuant  
23 to section 801 of the National Defense Authoriza-  
24 tion Act for Fiscal Year 2020.”.

1 **SEC. 802. SOFTWARE DEVELOPMENT AND SOFTWARE AC-**  
2 **QUISITION TRAINING AND MANAGEMENT**  
3 **PROGRAMS.**

4 (a) *ESTABLISHMENT OF SOFTWARE DEVELOPMENT*  
5 *AND SOFTWARE ACQUISITION TRAINING AND MANAGEMENT*  
6 *PROGRAMS.—*

7 (1) *IN GENERAL.—The Secretary of Defense, act-*  
8 *ing through the Under Secretary of Defense for Acqui-*  
9 *sition and Sustainment and in consultation with the*  
10 *Under Secretary of Defense for Research and Engi-*  
11 *neering and the Chief Information Officer of the De-*  
12 *partment of Defense, shall establish software develop-*  
13 *ment and software acquisition training and manage-*  
14 *ment programs for all software acquisition profes-*  
15 *sionals, software developers, and other appropriate in-*  
16 *dividuals, as determined by the Secretary of Defense*  
17 *to earn a certification in software development and*  
18 *software acquisition.*

19 (2) *PROGRAM CONTENTS.—The programs estab-*  
20 *lished under paragraph (1) shall—*

21 (A) *develop and expand the use of special-*  
22 *ized training programs for chief information of-*  
23 *ficers of the military departments and the De-*  
24 *fense Agencies, service acquisition executives,*  
25 *program executive officers, and program man-*  
26 *agers to include training on and experience in—*

1                   (i) *continuous software development;*

2                   *and*

3                   (ii) *acquisition pathways available to*

4                   *acquire software;*

5                   (B) *ensure program managers for major de-*

6                   *fense acquisition programs, defense business sys-*

7                   *tems, and other software programs of the Depart-*

8                   *ment of Defense—*

9                   (i) *have demonstrated competency in*

10                   *current software processes;*

11                   (ii) *have the skills to lead a workforce*

12                   *that can quickly meet challenges, use soft-*

13                   *ware tools that prioritize continuous or fre-*

14                   *quent upgrades as such tools become avail-*

15                   *able, take up opportunities provided by new*

16                   *innovations, and plan software activities in*

17                   *short iterations to learn from risks of soft-*

18                   *ware testing; and*

19                   (iii) *have the experience and training*

20                   *to delegate technical oversight and execution*

21                   *decisions; and*

22                   (C) *include continuing education courses*

23                   *and experiential training to help individuals*

24                   *maintain skills learned through the programs.*

25                   (b) *REPORTS.—*

1           (1) *REPORTS REQUIRED.*—*The Secretary shall*  
2           *submit to the congressional defense committees—*

3                   (A) *not later than 90 days after the date of*  
4                   *the enactment of this Act, an initial report; and*

5                   (B) *not later than one year after the date*  
6                   *of the enactment of this Act, a final report.*

7           (2) *CONTENTS.*—*Each report required under*  
8           *paragraph (1) shall include—*

9                   (A) *the status of implementing the software*  
10                   *development and software acquisition training*  
11                   *and management programs established under*  
12                   *subsection (a)(1);*

13                   (B) *a description of the requirements for*  
14                   *certification, including the requirements for com-*  
15                   *petencies in current software processes;*

16                   (C) *a description of potential career paths*  
17                   *in software development and software acquisition*  
18                   *within the Department of Defense;*

19                   (D) *an independent assessment conducted*  
20                   *by the Defense Innovation Board of the progress*  
21                   *made on implementing the programs established*  
22                   *under subsection (a)(1); and*

23                   (E) *any recommendations for changes to ex-*  
24                   *isting law to facilitate the implementation of the*  
25                   *programs established under subsection (a)(1).*

1       (c) *DEFINITIONS.*—*In this section:*

2           (1) *PROGRAM EXECUTIVE OFFICER; PROGRAM*  
3 *MANAGER.*—*The terms “program executive officer”*  
4 *and “program manager” have the meanings given*  
5 *those terms, respectively, in section 1737 of title 10,*  
6 *United States Code.*

7           (2) *SERVICE ACQUISITION EXECUTIVE.*—*The*  
8 *terms “military department”, “Defense Agency”, and*  
9 *“service acquisition executive” have the meanings*  
10 *given those terms, respectively, in section 101 of title*  
11 *10, United States Code.*

12           (3) *MAJOR DEFENSE ACQUISITION PROGRAM.*—  
13 *The term “major defense acquisition program” has*  
14 *the meaning given in section 2430 of title 10, United*  
15 *States Code.*

16           (4) *DEFENSE BUSINESS SYSTEM.*—*The term “de-*  
17 *fense business system” has the meaning given in sec-*  
18 *tion 2222(i)(1) of title 10, United States Code.*

19 **SEC. 803. MODIFICATIONS TO COST OR PRICING DATA FOR**  
20 **CERTAIN PROCUREMENTS.**

21       (a) *COST OR PRICING DATA FOR CERTAIN COMMER-*  
22 *CIAL PRODUCTS.*—

23           (1) *IN GENERAL.*—*Section 2306a(b)(4) of title*  
24 *10, United States Code, is amended by adding at the*  
25 *end the following new subparagraph:*

1           “(D) *If the head of contracting activity deter-*  
2           *mines, based on market research, that a commercial*  
3           *item will be solely procured by the Department of De-*  
4           *fense, the offeror of such commercial product shall*  
5           *provide cost or pricing data to the contracting officer*  
6           *pursuant to subsection (a).”.*

7           (2) *CONFORMING AMENDMENT.—Effective Janu-*  
8           *ary 1, 2020, subparagraph (D) of section 2306a(b)(4)*  
9           *of title 10, United States Code, as added by para-*  
10          *graph (1), is amended by striking “commercial item”*  
11          *and inserting “commercial product”.*

12          (b) *DATA OTHER THAN CERTIFIED COST OR PRICING*  
13          *DATA FOR SOLE SOURCE CONTRACT AWARDS.—*

14               (1) *IN GENERAL.—Not later than 60 days after*  
15               *the date of the enactment of this Act, the Secretary of*  
16               *Defense shall revise the Defense Supplement to the*  
17               *Federal Acquisition Regulation to require an offeror*  
18               *for a sole source contract, subcontract, or modification*  
19               *of a sole source contract or subcontract, to submit to*  
20               *the contracting officer data other than certified cost or*  
21               *pricing data under section 2306a(d) of title 10,*  
22               *United States Code, for purposes of determining the*  
23               *reasonableness of the price of the contract, sub-*  
24               *contract, or modification of the contract or sub-*  
25               *contract.*

1           (2) *PENALTY.*—*With respect to an offeror that*  
2           *fails to comply with the requirements established*  
3           *under paragraph (1), the Secretary of Defense may—*

4                     (A) *suspend or debar such offeror; or*

5                     (B) *include a notation on such offeror in*  
6           *the system used by the Federal Government to*  
7           *monitor or record contractor past performance.*

8           (c) *SHOULD-COST ANALYSIS FOR COMMERCIAL PROD-*  
9           *UCT PROCUREMENTS.*—*The Director of the Defense Con-*  
10           *tract Management Agency shall identify which commercial*  
11           *products (as defined in section 103 of title 41, United States*  
12           *Code, as in effect on January 1, 2020) should be analyzed*  
13           *under the should-cost review process before the Secretary of*  
14           *Defense enters into a contract to procure such a commercial*  
15           *product.*

16           (d) *GUIDELINES AND RESOURCES ON THE ACQUI-*  
17           *SITION OR LICENSING OF INTELLECTUAL PROPERTY.*—*Sec-*  
18           *tion 2322 of title 10, United States Code, is amended by*  
19           *adding at the end the following new subsection:*

20                     “(c) *GUIDELINES AND RESOURCES.*—

21                     “(1) *IN GENERAL.*—*The Secretary of Defense,*  
22           *acting through the Under Secretary of Defense for Ac-*  
23           *quisition and Sustainment, shall develop guidelines*  
24           *and resources on the acquisition or licensing of intel-*  
25           *lectual property, including—*

1           “(A) model forms for specially negotiated li-  
2           censes described under section 2320(f) (as appro-  
3           priate); and

4           “(B) an identification of definitions, key  
5           terms, examples, and case studies that resolve  
6           ambiguities in the differences between—

7                   “(i) detailed manufacturing and proc-  
8                   ess data;

9                   “(ii) form, fit, and function data; and

10                   “(iii) data required for operations,  
11                   maintenance, installation, and training.

12           “(2) CONSULTATION.—In developing the guide-  
13           lines and resources described in paragraph (1), the  
14           Secretary shall regularly consult with appropriate  
15           stakeholders, including large and small businesses,  
16           traditional and non-traditional contractors (includ-  
17           ing subcontractors), and maintenance repair organi-  
18           zations.”.

19 **SEC. 804. MODIFICATIONS TO COST OR PRICING DATA ON**  
20 **BELOW-THRESHOLD CONTRACTS.**

21           (a) **BELOW-THRESHOLD CIVILIAN CONTRACTS.**—Sec-  
22           tion 3504 of title 41, United States Code is amended—

23                   (1) by striking “head of the procuring activity”  
24                   each place it appears and inserting “contracting offi-  
25                   cer”;

1           (2) in subsection (b), by striking “or (2)”; and  
2           (3) by striking subsection (c).

3           (b) *BELOW-THRESHOLD DEFENSE CONTRACTS*.—Sec-  
4           tion 2306a(c) of title 10, United States Code, is amended—

5           (1) by striking “head of the procuring activity”  
6           each place it appears and inserting “contracting offi-  
7           cer”;

8           (2) in paragraph (2), by striking “or (B)”; and  
9           (3) by striking paragraph (3).

10 **SEC. 805. COMPTROLLER GENERAL REPORT ON PRICE REA-**  
11 **SONABLENESS.**

12           Not later than March 31, 2021, the Comptroller Gen-  
13           eral of the United States shall submit to the congressional  
14           defense committees, the Committee on Oversight and Reform  
15           of the House of Representatives, and the Committee on  
16           Homeland Security and Governmental Affairs of the Senate  
17           a report on the efforts of the Secretary of Defense to secure  
18           data relating to the price reasonableness of offers from  
19           offerors. The report shall include a review of—

20           (1) the number of, and justification for, any  
21           waiver of requirements for submission of certified cost  
22           or pricing data for sole source contracts for spare  
23           parts issued during fiscal years 2015 through 2019  
24           pursuant to section 2306a(b)(1)(C) of title 10, United  
25           States Code;

1           (2) *the number of, and justification for, any ex-*  
2 *ception to the requirements for submission of certified*  
3 *cost or pricing data for sole source contracts for spare*  
4 *parts provided during fiscal years 2015 through 2019*  
5 *pursuant to section 2306a(b)(1)(B) of title 10, United*  
6 *States Code;*

7           (3) *the number of contracts awarded for which a*  
8 *request for cost or pricing data, including data other*  
9 *than certified cost or pricing data, to determine price*  
10 *reasonableness was denied by an offeror at the time*  
11 *of award;*

12           (4) *actions taken by the Secretary if an offeror*  
13 *refused to provide request data described in para-*  
14 *graph (2), including—*

15                   (A) *whether the contracting officer included*  
16 *a notation in the system used by the Federal*  
17 *Government to monitor or record contractor past*  
18 *performance regarding the refusal of an offeror*  
19 *to provide such data;*

20                   (B) *any strategies developed by the Sec-*  
21 *retary to acquire the good that was the subject*  
22 *of a contract for which the offeror refused to pro-*  
23 *vide such data in the future without the need for*  
24 *such a waiver.*

1 **SEC. 806. REQUIREMENT THAT CERTAIN SHIP COMPO-**  
2 **NENTS BE MANUFACTURED IN THE NA-**  
3 **TIONAL TECHNOLOGY AND INDUSTRIAL**  
4 **BASE.**

5 (a) *ADDITIONAL PROCUREMENT LIMITATION.*—Section  
6 2534(a) of title 10, United States Code, is amended by add-  
7 ing at the end the following new paragraph:

8 “(6) *COMPONENTS FOR AUXILIARY SHIPS.*—Sub-  
9 ject to subsection (k), the following components:

10 “(A) *Auxiliary equipment, including*  
11 *pumps, for all shipboard services.*

12 “(B) *Propulsion system components, includ-*  
13 *ing engines, reduction gears, and propellers.*

14 “(C) *Shipboard cranes.*

15 “(D) *Spreaders for shipboard cranes.*”.

16 (b) *IMPLEMENTATION.*—Such section is further amend-  
17 ed by adding at the end the following new subsection:

18 “(k) *IMPLEMENTATION OF AUXILIARY SHIP COMPO-*  
19 *NENT LIMITATION.*—Subsection (a)(6) applies only with re-  
20 spect to contracts awarded by the Secretary of a military  
21 department for new construction of an auxiliary ship after  
22 the date of the enactment of the National Defense Authoriza-  
23 tion Act for Fiscal Year 2020 using funds available for Na-  
24 tional Defense Sealift Fund programs or Shipbuilding and  
25 Conversion, Navy. For purposes of this subsection, the term  
26 ‘auxiliary ship’ does not include an icebreaker.”.

1 **SEC. 807. ACQUISITION AND DISPOSAL OF CERTAIN RARE**  
2 **EARTH MATERIALS.**

3 (a) *GUIDANCE ON STREAMLINED ACQUISITION OF*  
4 *COVERED RARE EARTH MATERIALS.—*

5 (1) *IN GENERAL.—Not later than 180 days after*  
6 *the date of the enactment of this Act, the Under Sec-*  
7 *retary of Defense for Acquisition and Sustainment, in*  
8 *consultation with the Under Secretary of Defense*  
9 *(Comptroller), the Vice Chairman of the Joint Chiefs*  
10 *of Staff, and the appropriate Under Secretary of*  
11 *State designated by the Secretary of State shall estab-*  
12 *lish guidance to—*

13 (A) *enable the acquisition of items con-*  
14 *taining rare earth materials; and*

15 (B) *establish a secure supply chain for rare*  
16 *earth materials from sources within the United*  
17 *States and covered foreign sources.*

18 (2) *CONTENTS.—The guidance required by para-*  
19 *graph (1) shall encourage the use of rare earth mate-*  
20 *rials mined, refined, processed, melted, or sintered in*  
21 *the United States and include—*

22 (A) *a determination of when best value con-*  
23 *tracting methods should be used to ensure the vi-*  
24 *ability of a rare earth material supplier;*

25 (B) *a guide to the applicability of relevant*  
26 *statutes, including sections 2533b and 2533c of*

1           *title 10, United States Code, and other statutory*  
2           *or regulatory restrictions to defense contracts*  
3           *and subcontracts;*

4           *(C) information on current sources within*  
5           *the United States and covered foreign sources of*  
6           *rare earth materials along with commonly used*  
7           *commercial documentation and review processes;*

8           *(D) directives on budgeting and expending*  
9           *funds for the qualification and certification of*  
10          *suppliers of rare earth materials within the*  
11          *United States to meet national security needs;*  
12          *and*

13          *(E) any exceptions to the Joint Capabilities*  
14          *Integration and Development System Manual*  
15          *and Department of Defense Directive 5000.01.*

16          (3) *REPORT.—Not later than 180 days after the*  
17          *date of the enactment of this Act, the Under Secretary*  
18          *of Defense for Acquisition and Sustainment, in con-*  
19          *sultation with the appropriate Under Secretary of*  
20          *State designated by the Secretary of State, shall sub-*  
21          *mit to the congressional defense committees, the Com-*  
22          *mittee on Foreign Affairs of the House of Representa-*  
23          *tives, and the Committee on Foreign Relations of the*  
24          *Senate a report on—*

1           (A) the guidance required by paragraph (1);  
2           and

3           (B) the efforts of the Secretary of Defense to  
4           create and maintain secure supply chain for  
5           rare earth materials from sources within the  
6           United States and covered foreign sources.

7           (4) *DEFINITIONS.*—*In this subsection:*

8           (A) *COVERED FOREIGN SOURCE.*—*The term*  
9           “covered foreign source” means a source located  
10           in a foreign country that is not an adversary of  
11           the United States, as determined by the Sec-  
12           retary of Defense.

13           (B) *RARE EARTH MATERIAL.*—*The term*  
14           “rare earth material” means a concentrate,  
15           oxide, carbonate, fluoride, metal, alloy, magnet,  
16           or finished product whose chemical, magnetic, or  
17           nuclear properties are largely defined by the  
18           presence of—

19                   (i) yttrium;

20                   (ii) scandium; or

21                   (iii) any lanthanide series element.

22           (b) *AUTHORITY TO DISPOSE OF AND ACQUIRE MATE-*  
23           *RIALS FOR THE NATIONAL DEFENSE STOCKPILE.*—

24           (1) *DISPOSAL AUTHORITY.*—*Pursuant to section*  
25           5(b) of the Strategic and Critical Materials Stock Pil-

1 *ing Act (50 U.S.C. 98d(b)), the National Defense*  
2 *Stockpile Manager shall dispose of 3,000,000 pounds*  
3 *of tungsten ores and concentrates contained in the*  
4 *National Defense Stockpile (in addition to any*  
5 *amount previously authorized for disposal).*

6 (2) *ACQUISITION AUTHORITY.—*

7 (A) *AUTHORITY.—Using funds available in*  
8 *the National Defense Stockpile Transaction*  
9 *Fund, the National Defense Stockpile Manager*  
10 *may acquire the following materials determined*  
11 *to be strategic and critical materials required to*  
12 *meet the defense, industrial, and essential civil-*  
13 *ian needs of the United States:*

14 (i) *Aerospace-grade rayon.*

15 (ii) *Electrolytic manganese metal.*

16 (iii) *Pitch-based carbon fiber.*

17 (iv) *Rare earth cerium compounds.*

18 (v) *Rare earth lanthanum compounds.*

19 (B) *AMOUNT OF AUTHORITY.—The National*  
20 *Defense Stockpile Manager may use up to*  
21 *\$37,420,000 in the National Defense Stockpile*  
22 *Transaction Fund for acquisition of the mate-*  
23 *rials specified in subsection (b).*

24 (C) *FISCAL YEAR LIMITATION.—The author-*  
25 *ity under subsection (b) is available for pur-*

1           *chases during fiscal year 2020 through fiscal*  
2           *year 2024.*

3           *(c) NATIONAL DEFENSE STOCKPILE SALES.—*

4           *(1) SENSE OF CONGRESS.—It is the sense of*  
5           *Congress that tantalum should be designated as a*  
6           *strategic and critical material under the Strategic*  
7           *and Critical Materials Stock Piling Act (50 U.S.C.*  
8           *98 et seq.), required to meet the defense, industrial,*  
9           *and essential civilian needs of the United States.*

10           *(2) NATIONAL DEFENSE STOCKPILE SALES OF*  
11           *TANTALUM.—Section 2533c(d)(1) of title 10, United*  
12           *States code, is amended—*

13                   *(A) in subparagraph (C), by striking “and”*  
14                   *at the end;*

15                   *(B) in subparagraph (D), by striking the*  
16                   *period at the end and inserting “; and”; and*

17                   *(C) adding at the end the following new*  
18                   *subparagraph:*

19                           *“(E) tantalum.”.*

20           *(3) PROHIBITION ON SALES OF MATERIALS.—*

21           *Section 2533c(a)(2) of title 10, United States Code, is*  
22           *amended by striking “covered” before “material”.*

1 **SEC. 808. PROHIBITION ON ACQUISITION OF TANTALUM**  
2 **FROM NON-ALLIED FOREIGN NATIONS.**

3 *Subsection (d)(1) of section 2533c of title 10, United*  
4 *States Code, is amended—*

5 *(1) in subparagraph (C), by striking “and” at*  
6 *the end;*

7 *(2) in subparagraph (D), by striking the period*  
8 *at the end and inserting “; and”; and*

9 *(3) by adding at the end the following new sub-*  
10 *paragraph:*

11 *“(E) tantalum.”.*

12 **SEC. 809. APPLICATION OF MISCELLANEOUS TECHNOLOGY**  
13 **BASE POLICIES AND PROGRAMS TO THE CO-**  
14 **LUMBIA-CLASS SUBMARINE PROGRAM.**

15 *Notwithstanding subchapter V of chapter 148 of title*  
16 *10, United States Code (except for sections 2534, 2533a,*  
17 *and 2533b of such title), for a period of one year beginning*  
18 *on the date of the enactment of this Act, the milestone deci-*  
19 *sion authority (as defined in section 2366a of title 10,*  
20 *United States Code) for the Columbia-class submarine pro-*  
21 *gram shall ensure that such program maintains the sched-*  
22 *ule approved under the Milestone B approval (as defined*  
23 *in such section).*

1 **SEC. 810. APPLICATION OF LIMITATION ON PROCUREMENT**  
2 **OF GOODS OTHER THAN UNITED STATES**  
3 **GOODS TO THE FFG-FRIGATE PROGRAM.**

4 *Notwithstanding any other provision of law, amounts*  
5 *authorized to carry out the FFG-Frigate Program may be*  
6 *used to award a new contract that provides for the acquisi-*  
7 *tion of the following components regardless of whether those*  
8 *components are manufactured in the United States:*

9 (1) *Auxiliary equipment (including pumps) for*  
10 *shipboard services.*

11 (2) *Propulsion equipment (including engines, re-*  
12 *duction gears, and propellers).*

13 (3) *Shipboard cranes.*

14 (4) *Spreaders for shipboard cranes.*

15 **SEC. 811. CONSIDERATION OF PRICE IN PROCUREMENT OF**  
16 **THE FFG(X) FRIGATE.**

17 *In evaluating proposals for a contract to procure a*  
18 *FFG(X) frigate, the Secretary of the Navy shall ensure price*  
19 *is a critical evaluation factor set forth in the request for*  
20 *proposal (solicitation number N0002419R2300) for the pro-*  
21 *curement of the frigate.*

22 **SEC. 812. REPEAL OF CONTINUATION OF DATA RIGHTS**  
23 **DURING CHALLENGES.**

24 (a) *REPEAL.*—*Section 866 of the John S. McCain Na-*  
25 *tional Defense Authorization Act for Fiscal Year 2019 (Pub-*

1 *lic Law 115–232; 132 Stat. 1901; 10 U.S.C. 2321) is re-*  
2 *pealed.*

3       **(b) RESTORATION OF AMENDED PROVISION.**—Sub-  
4 *section (i) of section 2321 of title 10, United States Code,*  
5 *is amended to read as follows:*

6       “(i) **RIGHTS AND LIABILITY UPON FINAL DISPOSI-**  
7 **TION.**—(1) *If, upon final disposition, the contracting offi-*  
8 *cer’s challenge to the use or release restriction is sustained—*

9               “(A) *the restriction shall be cancelled; and*

10              “(B) *if the asserted restriction is found not to be*  
11 *substantially justified, the contractor or subcontractor*  
12 *asserting the restriction shall be liable to the United*  
13 *States for payment of the cost to the United States of*  
14 *reviewing the asserted restriction and the fees and*  
15 *other expenses (as defined in section 2412(d)(2)(A) of*  
16 *title 28) incurred by the United States in challenging*  
17 *the asserted restriction, unless special circumstances*  
18 *would make such payment unjust.*

19       “(2) *If, upon final disposition, the contracting officer’s*  
20 *challenge to the use or release restriction is not sustained—*

21              “(A) *the United States shall continue to be*  
22 *bound by the restriction; and*

23              “(B) *the United States shall be liable for pay-*  
24 *ment to the party asserting the restriction for fees and*  
25 *other expenses (as defined in section 2412(d)(2)(A) of*

1        *title 28) incurred by the party asserting the restric-*  
2        *tion in defending the asserted restriction if the chal-*  
3        *lenge by the United States is found not to be made*  
4        *in good faith.”.*

5        **SEC. 813. REPEAL OF AUTHORITY TO WAIVE ACQUISITION**  
6                                **LAWS TO ACQUIRE VITAL NATIONAL SECU-**  
7                                **RITY CAPABILITIES.**

8        *Section 806 of the National Defense Authorization Act*  
9        *for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C. 2302*  
10       *note) is repealed.*

11       **SEC. 814. REPEAL OF TRANSFER OF FUNDS RELATED TO**  
12                                **COST OVERRUNS AND COST UNDERRUNS.**

13        *(a) IN GENERAL.—Section 828 of the National Defense*  
14        *Authorization Act for Fiscal Year 2016 (Public Law 114–*  
15        *92; 10 U.S.C. 2430 note) is repealed.*

16        *(b) CONFORMING AMENDMENT.—Section 825 of the*  
17        *National Defense Authorization Act for Fiscal Year 2018*  
18        *(Public Law 115–91; 131 Stat. 1466) is amended—*

19                                *(1) by repealing subsection (b); and*

20                                *(2) by striking “(a) IN GENERAL.—”.*

1 ***Subtitle B—Amendments to General***  
2 ***Contracting Authorities, Proce-***  
3 ***dures, and Limitations***

4 ***SEC. 821. MODIFICATIONS TO THE MIDDLE TIER OF ACQUI-***  
5 ***SITION PROGRAMS.***

6 *(a) ACCESS TO TECHNICAL DATA, RECORDS, AND IN-*  
7 *FORMATION.—Section 804 of the National Defense Author-*  
8 *ization Act for Fiscal Year 2016 (Public Law 114–92; 10*  
9 *U.S.C. 2302 note) is amended by adding at the end the fol-*  
10 *lowing new subsection:*

11 *“(e) ACCESS TO TECHNICAL DATA, RECORDS, AND IN-*  
12 *FORMATION.—The Secretary of Defense shall develop a*  
13 *process to provide the Director of Operational Test and*  
14 *Evaluation, the Director of Cost Assessment and Program*  
15 *Evaluation, and the Under Secretary of Defense for Re-*  
16 *search and Engineering access to all technical data, records,*  
17 *and information necessary to evaluate the technological ma-*  
18 *turity, operational effectiveness, and operational suitability*  
19 *of products and technologies proposed to be acquired under*  
20 *the guidance required by subsection (a).”.*

21 *(b) DOLLAR THRESHOLD FOR ACQUISITION PRO-*  
22 *GRAMS.—Subsection (a) of such section is amended—*

23 *(1) by striking “Not later than” and inserting*  
24 *the following:*

25 *“(1) IN GENERAL.—Not later than”;*

1           (2) *in paragraph (1), as so designated, by strik-*  
2           *ing “acquisition programs that are intended to be*  
3           *completed in a period of two to five years.” and in-*  
4           *serting the following: “acquisition programs—*

5                     *“(A) with an eventual total expenditure for*  
6                     *research, development, test, and evaluation or an*  
7                     *eventual total expenditure for procurement that*  
8                     *is less than those expenditures described in sec-*  
9                     *tion 2430(a)(1)(B) of this title; and*

10                    *“(B) that are intended to be completed in a*  
11                    *period of two to five years.”; and*

12           (3) *by adding at the end the following new para-*  
13           *graph:*

14                    *“(2) WAIVER.—The Secretary of Defense may*  
15                    *waive the requirements of subparagraph (A) of para-*  
16                    *graph (1), and may not delegate the authority to*  
17                    *make such a waiver.”.*

18   **SEC. 822. BRIEFING RELATING TO THE “MIDDLE TIER” OF**  
19                    **ACQUISITION PROGRAMS.**

20           (a) *IN GENERAL.—Not later than December 1, 2019,*  
21           *the Secretary of Defense shall provide a briefing to the con-*  
22           *gressional defense committees on lessons learned and best*  
23           *practices identified through the use of the “middle tier” of*  
24           *acquisition programs described under section 804 of the Na-*  
25           *tional Defense Authorization Act for Fiscal Year 2016 (Pub-*

1 *lic Law 114–92; 10 U.S.C. 2302 note). The briefing shall*  
2 *be accompanied by a written analysis—*

3 *(1) identifying which lessons learned can be ap-*  
4 *plied to—*

5 *(A) “middle tier” acquisition programs;*  
6 *and*

7 *(B) any major defense acquisition program*  
8 *(as defined under section 2430 of title 10, United*  
9 *States Code);*

10 *(2) describing the extent to which covered risk*  
11 *should be a factor in determining which acquisition*  
12 *authority to use, including—*

13 *(A) an acquisition pathway as described*  
14 *under subsection (b) of section 804 of the Na-*  
15 *tional Defense Authorization Act for Fiscal Year*  
16 *2016 (Public Law 114–92; 10 U.S.C. 2302 note);*

17 *(B) the authority described under section*  
18 *2371b of title 10, United States Code;*

19 *(C) acquisition authority relating to urgent*  
20 *operational needs;*

21 *(D) a traditional acquisition process; or*

22 *(E) any other acquisition authority, as de-*  
23 *termined by the Secretary;*

24 *(3) describing whether any requirements applica-*  
25 *ble to major defense acquisition programs should be*

1 applicable to “middle tier” acquisition programs  
2 under such section; and

3 (4) recommending amendments or revisions (as  
4 applicable) to law or regulation, and including avail-  
5 able data to support such recommendations.

6 (b) COVERED RISK DEFINED.—In this section, the  
7 term “covered risk” shall have the meaning given by the  
8 Secretary of Defense, and shall include a consideration of  
9 cost, schedule, performance, risk to operational success.

10 **SEC. 823. RATES FOR PROGRESS PAYMENTS OR PERFORM-**  
11 **ANCE-BASED PAYMENTS.**

12 (a) CONSISTENCY IN ESTABLISHMENT OF RATES FOR  
13 PROGRESS PAYMENTS OR PERFORMANCE-BASED PAY-  
14 MENTS.—Section 2307(a) of title 10, United States Code,  
15 is amended by inserting the following new paragraph:

16 “(3) Except as provided in subsection (g), the  
17 Secretary of Defense shall not establish a rate for  
18 progress payments or a rate for performance-based  
19 payments that is lower than the rate for progress pay-  
20 ments or a rate for performance-based payments, as  
21 applicable, established by another head of an agen-  
22 cy.”

23 (b) PAYMENT AUTHORITY.—Section 2307(a)(1) of title  
24 10, United States Code, is amended in the matter preceding

1 *subparagraph (A) by striking “The head of any agency*  
2 *may” and inserting “The head of an agency may—”.*

3 *(c) NOTICE OF REVISION TO RATES FOR PROGRESS*  
4 *PAYMENTS OR PERFORMANCE-BASED PAYMENTS.—*

5 *(1) TO CONGRESS.—The Secretary of Defense*  
6 *may not issue rules to revise the rate for progress*  
7 *payments or the rate for performance-based payments*  
8 *unless the Secretary provides the congressional defense*  
9 *committees with a notice of determination of need for*  
10 *such revision. This notice shall include—*

11 *(A) a justification, including the data and*  
12 *analysis supporting the justification, for the re-*  
13 *vision; and*

14 *(B) an assessment of how the revision will*  
15 *create a more effective acquisition process and*  
16 *benefit the defense industrial base.*

17 *(2) PUBLICATION.—The Secretary shall publish*  
18 *the notice required by paragraph (1) in the Federal*  
19 *Register not later than five business days after pro-*  
20 *viding such notice to the congressional defense com-*  
21 *mittees.*

1 **SEC. 824. ADDITIONAL REQUIREMENTS FOR NEGOTIATIONS**  
2 **FOR NONCOMMERCIAL COMPUTER SOFT-**  
3 **WARE.**

4 *Section 2322a of title 10, United States Code, is*  
5 *amended by adding at the end the following new sub-*  
6 *sections:*

7 *“(c) RIGHTS TO NONCOMMERCIAL COMPUTER SOFT-*  
8 *WARE.—As part of any negotiation for the acquisition of*  
9 *noncommercial computer software, the Secretary of Defense*  
10 *may not require a contractor to sell or otherwise relinquish*  
11 *to the Federal Government any rights to noncommercial*  
12 *computer software developed exclusively at private expense,*  
13 *except for rights related to—*

14 *“(1) corrections or changes to such software or*  
15 *related materials for such software furnished to the*  
16 *contractor by the Department of Defense;*

17 *“(2) such software or related materials for such*  
18 *software that is otherwise publicly available or that*  
19 *has been released or disclosed by the contractor or*  
20 *subcontractor without restrictions on further use, re-*  
21 *lease, or disclosure, other than a release or disclosure*  
22 *resulting from the sale, transfer, or other assignment*  
23 *of interest in such software or related materials to an-*  
24 *other party;*

25 *“(3) such software or related materials for such*  
26 *software obtained with unlimited rights under an-*

1        *other contract with the Federal Government or as a*  
2        *result of such a negotiation; or*

3            *“(4) such software or related materials for such*  
4        *software furnished to the Department of Defense*  
5        *under a contract or subcontract that includes—*

6            *“(A) restricted rights in such software, lim-*  
7        *ited rights in technical data, or government pur-*  
8        *pose rights, where such restricted rights, limited*  
9        *rights, or government purpose rights have ex-*  
10       *pired; or*

11           *“(B) government purpose rights, where the*  
12       *contractor’s exclusive right to use such software*  
13       *or related materials for commercial purposes has*  
14       *expired.*

15        *“(d) CONSIDERATION OF SPECIALLY NEGOTIATED LI-*  
16       *CENSES.—The Secretary of Defense shall, to the maximum*  
17       *extent practicable, negotiate and enter into a contract with*  
18       *a contractor for a specially negotiated license for non-*  
19       *commercial computer software or related materials for such*  
20       *software necessary to support the product support strategy*  
21       *of a major weapon system or subsystem of a major weapon*  
22       *system.”.*

1 **SEC. 825. RESPONSIBILITY FOR DATA ANALYSIS AND RE-**  
2 **QUIREMENTS VALIDATION FOR SERVICES**  
3 **CONTRACTS.**

4 *Section 2329 of title 10, United States Code, is amend-*  
5 *ed—*

6 (1) *in subsection (a), by inserting “, acting*  
7 *through the Under Secretary of Defense (Comptroller*  
8 *and Director of Cost Assessment and Program Eval-*  
9 *uation,” after “Secretary of Defense”;*

10 (2) *in subsection (b), in the matter preceding*  
11 *paragraph (1), by inserting “, acting through the*  
12 *Under Secretary of Defense (Comptroller) and Direc-*  
13 *tor of Cost Assessment and Program Evaluation,”*  
14 *after “Secretary of Defense”; and*

15 (3) *in subsection (c)(2)(A), by inserting “, acting*  
16 *through the Under Secretary of Defense (Comptroller)*  
17 *and Director of Cost Assessment and Program Eval-*  
18 *uation,” after “Secretary of Defense”.*

19 **SEC. 826. ANNUAL REPORTS ON AUTHORITY TO CARRY OUT**  
20 **CERTAIN PROTOTYPE PROJECTS.**

21 (a) *IN GENERAL.—Section 2371b of title 10, United*  
22 *States Code, is amended by adding at the end the following*  
23 *new subsections:*

24 “(i) *DATA COLLECTION AND USE.—(1) The service ac-*  
25 *quisition executive of each military department shall collect*  
26 *data on the use of the authority under this section by the*

1 *applicable military department, and the Under Secretary*  
2 *of Defense for Research and Engineering and the Under*  
3 *Secretary of Defense for Acquisition and Sustainment shall*  
4 *collect data on all other use of such authority by the Depart-*  
5 *ment of Defense, including use by the Defense Agencies.*

6       “(2) *The Under Secretary of Defense for Acquisition*  
7 *and Sustainment shall—*

8               “(A) *maintain a database of information col-*  
9 *lected under this section, which shall be made acces-*  
10 *sible to any official designated by the Secretary of De-*  
11 *fense; and*

12               “(B) *analyze such information to update policy*  
13 *and guidance related to the use of the authority under*  
14 *this section.*

15       “(j) *REPORT.—(1) Not later than December 31, 2019,*  
16 *and each December 31 thereafter the Secretary of Defense*  
17 *shall annually submit to the congressional defense commit-*  
18 *tees a report covering the preceding fiscal year on the use*  
19 *of the authority under this section. Each report shall sum-*  
20 *marize the data collected under subsection (i) on the nature*  
21 *and extent of each such use of the authority, including a*  
22 *description—*

23               “(A) *of the participants to an agreement entered*  
24 *into pursuant to the authority of subsection (a) or a*

1 *follow-on contract or transaction entered into pursu-*  
2 *ant to the authority of subsection (f);*

3 *“(B) of the quantity of prototype projects to be*  
4 *produced pursuant to such an agreement, follow-on*  
5 *contract, or transaction;*

6 *“(C) of the amount of payments made pursuant*  
7 *to each such agreement, follow-on contract, or trans-*  
8 *action;*

9 *“(D) of the purpose, description, and status of*  
10 *prototype projects carried out pursuant to each such*  
11 *agreement, follow-on contract, or transaction; and*

12 *“(E) including case examples, of the successes*  
13 *and challenges with using the authority of subsection*  
14 *(a) or (f).*

15 *“(2) A report required under this subsection shall be*  
16 *submitted in unclassified form without any designation re-*  
17 *lating to dissemination control, but may contain a classi-*  
18 *fied annex.”.*

19 *(b) CONFORMING AMENDMENT.—Section 873 of the*  
20 *John S. McCain National Defense Authorization Act for*  
21 *Fiscal Year 2019 (Public Law 115–232; 132 Stat. 1905;*  
22 *10 U.S.C. 2371 note) is repealed.*

1 **SEC. 827. COMPETITION REQUIREMENTS FOR PURCHASES**  
2 **FROM FEDERAL PRISON INDUSTRIES.**

3 (a) *COMPETITION REQUIREMENTS FOR PURCHASES*  
4 *FROM FEDERAL PRISON INDUSTRIES.*—Subsections (a)  
5 and (b) of section 2410n of title 10, United States Code,  
6 are amended to read as follows:

7 “(a) *MARKET RESEARCH.*—Before purchasing a prod-  
8 uct listed in the latest edition of the Federal Prison Indus-  
9 tries catalog published under section 4124(d) of title 18, the  
10 Secretary of Defense shall conduct market research to deter-  
11 mine whether such product—

12 “(1) is comparable to products available from the  
13 private sector; and

14 “(2) best meets the needs of the Department of  
15 Defense in terms of price, quality, and time of deliv-  
16 ery.

17 “(b) *COMPETITION REQUIREMENT.*—If the Secretary  
18 determines that a Federal Prison Industries product is not  
19 comparable to products available from the private sector  
20 and does not best meet the needs of the Department of De-  
21 fense in terms of price, quality, or time of delivery, the Sec-  
22 retary shall use competitive procedures or make an indi-  
23 vidual purchase under a multiple award contract for the  
24 procurement of the product. In conducting such a competi-  
25 tion or making such a purchase, the Secretary shall con-  
26 sider a timely offer from Federal Prison Industries.”.

1           (b) *EFFECTIVE DATE.*—The amendment made by sub-  
2 section (a) shall take effect 60 days after the date of the  
3 enactment of this Act.

4 **SEC. 828. ENHANCED POST-AWARD DEBRIEFING RIGHTS.**

5           Section 818(a)(1) of the National Defense Authoriza-  
6 tion Act for Fiscal Year 2018 (Public Law 115–91; 131  
7 Stat. 1463; 10 U.S.C. 2305 note) is amended by striking  
8 “\$100,000,000” each place it appears and inserting  
9 “\$50,000,000”.

10 **SEC. 829. STANDARDIZING DATA COLLECTION AND RE-**  
11 **PORTING ON USE OF SOURCE SELECTION**  
12 **PROCEDURES BY FEDERAL AGENCIES.**

13           (a) *REPEAL OF GOVERNMENT ACCOUNTABILITY OF-*  
14 *FICE REPORTING REQUIREMENTS ON USE OF LOWEST*  
15 *PRICE TECHNICALLY ACCEPTABLE SOURCE SELECTION*  
16 *CRITERIA.*—

17           (1) *DEPARTMENT OF DEFENSE.*—Section 813 of  
18 the National Defense Authorization Act for Fiscal  
19 Year 2017 (10 U.S.C. 2305 note) is amended by strik-  
20 ing subsection (d).

21           (2) *OTHER AGENCIES.*—Section 880 of the John  
22 S. McCain National Defense Authorization Act for  
23 Fiscal Year 2019 (Public Law 115–232; 132 Stat.  
24 1910; 41 U.S.C. 3701 note) is amended by striking

1        *subsection (d) and redesignating subsection (e) as sub-*  
2        *section (d).*

3        *(b) REVISION TO THE FEDERAL PROCUREMENT DATA*  
4        *SYSTEM.—Not later than 180 days after the date of the en-*  
5        *actment of this Act, the Administrator of General Services,*  
6        *in coordination with the Administrator for Federal Pro-*  
7        *curement Policy, shall direct appropriate revisions to the*  
8        *Federal procurement data system established pursuant to*  
9        *section 1122(a)(4) of title 41, United States Code (or any*  
10       *successor system), to facilitate the collection of complete,*  
11       *timely, and reliable data on the source selection processes*  
12       *used by Federal agencies for the contract actions being re-*  
13       *ported in the system. The Administrator of General Services*  
14       *shall ensure that data is collected—*

15                *(1) at a minimum, on the usage of the lowest*  
16                *price technically acceptable contracting methods and*  
17                *best value contracting methods process; and*

18                *(2) on all applicable contracting actions, includ-*  
19                *ing task orders or delivery orders issued under indefi-*  
20                *nite delivery-indefinite quantity contracts.*

21        **SEC. 830. MODIFICATION OF JUSTIFICATION AND AP-**  
22                        **PROVAL REQUIREMENT FOR CERTAIN DE-**  
23                        **PARTMENT OF DEFENSE CONTRACTS.**

24        *(a) MODIFICATION OF JUSTIFICATION AND APPROVAL*  
25        *REQUIREMENT.—Notwithstanding section 811 of the Na-*

1 *tional Defense Authorization Act for Fiscal Year 2010 (Pub-*  
2 *lic Law 111–84; 123 Stat. 2405)—*

3           (1) *no justification and approval is required*  
4 *under such section for a sole-source contract awarded*  
5 *by the Department of Defense in a covered procure-*  
6 *ment for an amount not exceeding \$100,000,000; and*

7           (2) *for purposes of subsections (a)(2) and*  
8 *(c)(3)(A) of such section, the appropriate official des-*  
9 *ignated to approve the justification for a sole-source*  
10 *contract awarded by the Department of Defense in a*  
11 *covered procurement exceeding \$100,000,000 is the of-*  
12 *ficial designated in section 2304(f)(1)(B)(ii) of title*  
13 *10, United States Code.*

14           (b) *GUIDANCE.—Not later than 90 days after the date*  
15 *of the enactment of this Act, the Secretary of Defense shall*  
16 *issue guidance to implement the authority under subsection*  
17 *(a).*

18           (c) *COMPTROLLER GENERAL REVIEW.—*

19           (1) *DATA TRACKING AND COLLECTION.—The De-*  
20 *partment of Defense shall track the use of the author-*  
21 *ity provided pursuant to subsection (a) and make the*  
22 *data available to the Comptroller General for pur-*  
23 *poses of the report required under paragraph (2).*

24           (2) *REPORT.—Not later than February 1, 2022,*  
25 *the Comptroller General of the United States shall*

1       submit a report to the congressional defense commit-  
2       tees on the use of the authority provided pursuant to  
3       subsection (a) through the end of fiscal year 2021.

4       ***Subtitle C—Provisions Relating to***  
5       ***Acquisition Workforce***

6       ***SEC. 841. DEFENSE ACQUISITION WORKFORCE CERTIFI-***  
7       ***CATION AND EDUCATION REQUIREMENTS.***

8       *(a) PROFESSIONAL CERTIFICATION REQUIREMENT.—*

9               *(1) PROFESSIONAL CERTIFICATION REQUIRED*  
10       *FOR ALL ACQUISITION WORKFORCE PERSONNEL.—Section*  
11       *1701a of title 10, United States Code, is amend-*  
12       *ed—*

13                       *(A) by redesignating subsections (c) and (d)*  
14                       *as subsections (d) and (e), respectively; and*

15                       *(B) by inserting after subsection (b) the fol-*  
16                       *lowing new subsection:*

17       *“(c) PROFESSIONAL CERTIFICATION.—(1) IN GEN-*  
18       *ERAL.—The Secretary of Defense shall implement a certifi-*  
19       *cation program to provide for a professional certification*  
20       *requirement for all members of the acquisition workforce.*  
21       *Except as provided in paragraph (2), the certification re-*  
22       *quirement for any career field of the acquisition workforce*  
23       *shall be based on nationally or internationally recognized*  
24       *standards developed by a third-party entity.*

1           “(2) *REQUIREMENTS FOR SECRETARY.*—If the Sec-  
2   retary determines that, for a particular acquisition work-  
3   force career field, the third-party entity described in para-  
4   graph (1) does not meet the needs of the Department, the  
5   Secretary shall establish the professional certification re-  
6   quirement for that career field that conforms with nation-  
7   ally or internationally recognized standards. The Secretary  
8   shall determine the best approach to implement such re-  
9   quirement for that career field, including implementation  
10  through entities outside the Department of Defense and may  
11  be designed and implemented without regard to section  
12  1746 of this title.”.

13           (2) *CERTIFICATION RENEWAL.*—Paragraph (3) of  
14   section 1723(a) of such title is amended by striking  
15   the second sentence.

16           (3) *PARTICIPATION IN PROFESSIONAL ASSOCIA-*  
17   *TIONS.*—Section 1701a(b) of such title is amended—

18           (A) by redesignating paragraphs (6), (7),  
19           (8), and (9) as paragraphs (7), (8), (9), and  
20           (10), respectively; and

21           (B) by inserting after paragraph (5) the fol-  
22   lowing new paragraph:

23           “(6) authorize a member of the acquisition work-  
24   force to participate in professional associations, con-  
25   sistent with the performance plan of such member, if

1        *such participation provides the member with the op-*  
2        *portunity to gain leadership and management*  
3        *skills;”.*

4            (4) *EFFECTIVE DATE.—The Secretary of Defense*  
5        *shall carry out the certification program required by*  
6        *subsection (c) of section 1701a of title 10, United*  
7        *States Code, as added by paragraph (1), not later*  
8        *than 180 days after the date of the enactment of this*  
9        *Act.*

10        (b) *ELIMINATION OF STATUTORY REQUIREMENT FOR*  
11        *COMPLETION OF 24 SEMESTER CREDIT HOURS.—*

12            (1) *QUALIFICATION REQUIREMENTS FOR CON-*  
13        *TRACTING OFFICERS.—Section 1724 of title 10,*  
14        *United States Code, is amended—*

15            (A) *in subsection (a)(3)—*

16                    (i) *by striking “(A)” after “(3)”;* and

17                    (ii) *by striking “, and (B)” and all*  
18                    *that follows through “and management”;*

19            (B) *in subsection (b), by striking “require-*  
20        *ments” in the first sentences of paragraphs (1)*  
21        *and (2) and inserting “requirement”;*

22            (C) *in subsection (e)—*

23                    (i) *in paragraph (1)—*

24                            (I) *by striking “requirements in*  
25                            *subparagraphs (A) and (B) of sub-*

1                    *section (a)(3)” and inserting “require-*  
2                    *ment of subsection (a)(3)”;* and

3                    (II) *in subparagraph (C), by*  
4                    *striking “requirements” and inserting*  
5                    *“requirement”;* and

6                    (ii) *in paragraph (2)—*

7                    (I) *by striking “shall have—” and*  
8                    *all that follows through “been award-*  
9                    *ed” and inserting “shall have been*  
10                    *awarded”;*

11                    (II) *by striking “; or” and insert-*  
12                    *ing a period; and*

13                    (III) *by striking subparagraph*  
14                    *(B); and*

15                    (D) *in subsection (f), by striking “, includ-*  
16                    *ing—” and all that follows and inserting a pe-*  
17                    *riod.*

18                    (2) *SELECTION CRITERIA AND PROCEDURES.—*

19                    *Section 1732 of such title is amended—*

20                    (A) *in subsection (b)(1)—*

21                    (i) *by striking “Such requirements,”*  
22                    *and all the follows through “the person—”*  
23                    *and inserting “Such requirements shall in-*  
24                    *clude a requirement that the person—”;*

25                    (ii) *by striking subparagraph (B); and*

1                   (iii) by redesignating clauses (i) and  
2                   (ii) as subparagraphs (A) and (B), respec-  
3                   tively, and conforming the margins accord-  
4                   ingly;

5                   (B) in subsection (c), by striking “require-  
6                   ments of subsections (b)(1)(A) and (b)(1)(B)” in  
7                   paragraphs (1) and (2) and inserting “require-  
8                   ment of subsection (b)(1)”;

9                   (C) in subsection (d)—

10                   (i) by striking “(1) Except as provided  
11                   in paragraph (2),”; and

12                   (ii) by striking paragraph (2).

13                   (c) *DEFENSE ACQUISITION UNIVERSITY CURRICULUM*  
14 *DEVELOPMENT.*—Section 1746(c) of title 10, United States  
15 Code, is amended by inserting “, and with commercial pro-  
16 viders of training,” after “military departments”.

17                   (d) *CAREER PATHS.*—

18                   (1) *CAREER PATH REQUIRED FOR EACH ACQUI-*  
19 *SITION WORKFORCE CAREER FIELD.*—Paragraph (4)  
20 of section 1701a(b) of title 10, United States Code, is  
21 amended to read as follows:

22                   “(4) develop and implement a career path, as de-  
23 scribed in section 1722(a) of this title, for each career  
24 field designated by the Secretary under section

1       1721(a) of this title as an acquisition workforce ca-  
2       reer field;”.

3               (2)       CONFORMING       AMENDMENTS.—Section  
4       1722(a) of such title is amended—

5                       (A) by striking “appropriate career paths”  
6                       and inserting “an appropriate career path”; and

7                       (B) by striking “are identified” and insert-  
8                       ing “is identified for each acquisition workforce  
9                       career field”.

10               (3)       DEADLINE FOR IMPLEMENTATION OF CAREER  
11       PATHS.—The Secretary of Defense shall carry out the  
12       requirements of paragraph (4) of section 1701a(b) of  
13       title 10, United States Code (as amended by para-  
14       graph (1)), not later than the end of the two-year pe-  
15       riod beginning on the date of the enactment of this  
16       Act.

17               (e)       CAREER FIELDS.—

18                       (1)       DESIGNATION OF ACQUISITION WORKFORCE  
19       CAREER FIELDS.—Section 1721(a) of such title is  
20       amended by adding at the end the following new sen-  
21       tence: “The Secretary shall also designate in regula-  
22       tions those career fields in the Department of Defense  
23       that are acquisition workforce career fields for pur-  
24       poses of this chapter.”.

1           (2) *CLERICAL AMENDMENTS.—(A) The heading*  
 2           *of such section is amended to read as follows:*

3           **“§ 1721. Designation of acquisition positions and ac-**  
 4           **quisition workforce career fields”.**

5           *(B) The item relating to such section in the*  
 6           *table of sections at the beginning of subchapter*  
 7           *II of chapter 87 of such title is amended to read*  
 8           *as follows:*

*“1721. Designation of acquisition positions and acquisition workforce career  
 fields.”.*

9           (3)(A) *The heading of subchapter II of chapter*  
 10          *87 of such title is amended to read as follows:*

*“SUBCHAPTER II—ACQUISITION POSITIONS AND ACQUISITION WORKFORCE  
 CAREER FIELDS”.*

11          *(B) The item relating to such subchapter in the*  
 12          *table of subchapters at the beginning of such chapter*  
 13          *is amended to read as follows:*

*“II. Acquisition Positions And Acquisition Workforce Career Fields ..... 1721”.*

14          (4) *DEADLINE FOR DESIGNATION OF CAREER*  
 15          *FIELDS.—The Secretary of Defense shall carry out the*  
 16          *requirements of second sentence of section 1721(a) of*  
 17          *title 10, United States Code (as added by paragraph*  
 18          *(1)), not later than the end of the six-month period*  
 19          *beginning on the date of the enactment of this Act.*

20          (f) *KEY WORK EXPERIENCES.—*

21                 (1) *DEVELOPMENT OF KEY WORK EXPERIENCES*  
 22          *FOR EACH ACQUISITION WORKFORCE CAREER*

1        *FIELD.—Section 1722b of such title is amended by*  
2        *adding at the end the following new subsection:*

3        *“(c) KEY WORK EXPERIENCES.—In carrying out sub-*  
4        *section (b)(2), the Secretary shall ensure that key work expe-*  
5        *riences, in the form of multidiscipline training, are devel-*  
6        *oped for each acquisition workforce career field.”.*

7                *(2) PLAN FOR IMPLEMENTATION OF KEY WORK*  
8        *EXPERIENCES.—Not later than one year after the date*  
9        *of the enactment of this Act, the Secretary of Defense*  
10        *shall submit to the congressional defense committees a*  
11        *plan identifying the specific actions the Department*  
12        *of Defense has taken, and is planning to take, to de-*  
13        *velop and establish key work experiences for each ac-*  
14        *quisition workforce career field as required by sub-*  
15        *section (c) of section 1722b of title 10, United States*  
16        *Code, as added by paragraph (1). The plan shall in-*  
17        *clude specification of the percentage of the acquisition*  
18        *workforce, or funds available for administration of*  
19        *the acquisition workforce on an annual basis, that the*  
20        *Secretary will dedicate towards developing such key*  
21        *work experiences.*

22                *(g) APPLICABILITY OF CAREER PATH REQUIREMENTS*  
23        *TO ALL MEMBERS OF ACQUISITION WORKFORCE.—Section*  
24        *1723(b) of such title is amended by striking “the critical*  
25        *acquisition-related”.*

1       (h) *COMPETENCY DEVELOPMENT.*—

2               (1) *IN GENERAL.*—(A) *Subchapter V of chapter*  
3       *87 of such title is amended by adding at the end the*  
4       *following new section:*

5       **“§ 1765. Competency development**

6               “(a) *IN GENERAL.*—*For each acquisition workforce ca-*  
7       *reer field, the Secretary of Defense shall establish, for the*  
8       *civilian personnel in that career field, defined proficiency*  
9       *standards and technical and nontechnical competencies*  
10       *which shall be used in personnel qualification assessments.*

11              “(b) *NEGOTIATIONS.*—*Any action taken by the Sec-*  
12       *retary under this section, or to implement this section, shall*  
13       *not be subject to the requirements of chapter 71 of title 5.”.*

14                       (B) *The table of sections at the beginning of*  
15                       *such subchapter II is amended by adding at the*  
16                       *end the following new item:*

“1765. *Competency development.*”.

17               (2) *DEADLINE FOR IMPLEMENTATION.*—*The Sec-*  
18       *retary of Defense shall carry out the requirements of*  
19       *section 1765 of title 10, United States Code (as added*  
20       *by paragraph (1)), not later than the end of the two-*  
21       *year period beginning on the date of the enactment of*  
22       *this Act.*

23       (i) *TERMINATION OF DEFENSE ACQUISITION CORPS.*—

1           (1) *The Acquisition Corps for the Department of*  
2 *Defense referred to in section 1731(a) of title 10,*  
3 *United States Code, is terminated.*

4           (2) *Section 1733 of title 10, United States Code,*  
5 *is amended—*

6                 (A) *by striking subsection (a); and*

7                 (B) *by redesignating subsection (b) as sub-*  
8 *section (a).*

9           (3) *Subsection (b) of section 1731 of such title is*  
10 *transferred to the end of section 1733 of such title, as*  
11 *amended by paragraph (2), and amended—*

12                 (A) *by striking “ACQUISITION CORPS” in*  
13 *the heading and inserting “THE ACQUISITION*  
14 *WORKFORCE”;* and

15                 (B) *by striking “selected for the Acquisition*  
16 *Corps” and inserting “in the acquisition work-*  
17 *force”.*

18           (4) *Subsection (e) of section 1732 of such title is*  
19 *transferred to the end of section 1733 of such title, as*  
20 *amended by paragraphs (2) and (3), redesignated as*  
21 *subsection (c), and amended—*

22                 (A) *by striking “in the Acquisition Corps”*  
23 *in paragraphs (1) and (2) and inserting “in*  
24 *critical acquisition positions”;* and

1                   (B) by striking “serving in the Corps” in  
2                   paragraph (2) and inserting “employment”.

3                   (5) Sections 1731 and 1732 of such title are re-  
4                   pealed.

5                   (6)(A) Section 1733 of such title, as amended by  
6                   paragraphs (2), (3), and (4), is redesignated as sec-  
7                   tion 1731.

8                   (B) The table of sections at the beginning of sub-  
9                   chapter III of chapter 87 of such title is amended by  
10                  striking the items relating to sections 1731, 1732, and  
11                  1733 and inserting the following new item:

“1731. Critical acquisition positions.”.

12                  (7)(A) The heading of subchapter III of chapter  
13                  87 of such title is amended to read as follows:

“SUBCHAPTER III—CRITICAL ACQUISITION POSITIONS”.

14                  (B) The item relating to such subchapter in the  
15                  table of subchapters at the beginning of such chapter  
16                  is amended to read as follows:

“III. Critical Acquisition Positions ..... 1731”.

17                  (8) Section 1723(a)(2) of such title is amended  
18                  by striking “section 1733 of this title” and inserting  
19                  “section 1731 of this title”.

20                  (9) Section 1725 of such title is amended—

21                         (A) in subsection (a)(1), by striking “De-  
22                         fense Acquisition Corps” and inserting “acquisi-  
23                         tion workforce”; and

1           (B) in subsection (d)(2), by striking “of the  
2           Defense Acquisition Corps” and inserting “in the  
3           acquisition workforce serving in critical acqusi-  
4           tion positions”.

5           (10) Section 1734 of such title is amended—

6           (A) by striking “of the Acquisition Corps”  
7           in subsections (e)(1) and (h) and inserting “of  
8           the acquisition workforce”; and

9           (B) in subsection (g)—

10           (i) by striking “of the Acquisition  
11           Corps” in the first sentence and inserting  
12           “of the acquisition workforce”;

13           (ii) by striking “of the Corps” and in-  
14           serting “of the acquisition workforce”; and

15           (iii) by striking “of the Acquisition  
16           Corps” in the second sentence and inserting  
17           “of the acquisition workforce in critical ac-  
18           quisition positions”.

19           (11) Section 1737 of such title is amended—

20           (A) in subsection (a)(1), by striking “of the  
21           Acquisition Corps” and inserting “of the acqusi-  
22           tion workforce”; and

23           (B) in subsection (b), by striking “of the  
24           Corps” and inserting “of the acquisition work-  
25           force”.

1           (12) Section 1742(a)(1) of such title is amended  
2           by striking “the Acquisition Corps” and inserting  
3           “acquisition positions in the Department of Defense”.

4           (13) Section 2228(a)(4) of such title is amended  
5           by striking “under section 1733(b)(1)(C) of this title”  
6           and inserting “under section 1731 of this title”.

7           (14) Section 7016(b)(5)(B) of such title is  
8           amended by striking “under section 1733 of this title”  
9           and inserting “under section 1731 of this title”.

10          (15) Section 8016(b)(4)(B) of such title is  
11          amended by striking “under section 1733 of this title”  
12          and inserting “under section 1731 of this title”.

13          (16) Section 9016(b)(4)(B) of such title is  
14          amended by striking “under section 1733 of this title”  
15          and inserting “under section 1731 of this title”.

16          (17) Paragraph (1) of section 317 of title 37,  
17          United States Code, is amended to read as follows:

18                 “(1) is a member of the acquisition workforce se-  
19                 lected to serve in, or serving in, a critical acquisition  
20                 position designated under section 1731 of title 10.”.

21          (j) DESIGNATION OF FOREIGN MILITARY SALES AS AC-  
22          QUISITION POSITION.—Section 1721(b) of title 10, United  
23          States Code, is amended by adding at the end the following  
24          new paragraph:

25                 “(13) Foreign military sales.”.

1 **SEC. 842. PUBLIC-PRIVATE EXCHANGE PROGRAM FOR THE**  
2 **ACQUISITION WORKFORCE.**

3 (a) *PUBLIC-PRIVATE EXCHANGE PROGRAM FOR THE*  
4 *ACQUISITION WORKFORCE.*—

5 (1) *IN GENERAL.*—*Subchapter IV of chapter 87*  
6 *of title 10, United States Code, is amended by adding*  
7 *at the end the following new section:*

8 **“§ 1749. Public-private exchange program for the ac-**  
9 **quisition workforce**

10 “(a) *ASSIGNMENT AUTHORITY.*—(1) *The Secretary*  
11 *may, by rule, establish a program to be known as the ‘Pub-*  
12 *lic-Private Exchange Program for the Acquisition Work-*  
13 *force’ to temporarily assign a member of the acquisition*  
14 *workforce to a private-sector organization or an employee*  
15 *of a private-sector organization to the Department of De-*  
16 *fense if—*

17 “(A) *pursuant to an agreement between the Sec-*  
18 *retary, the private-sector organization, and the indi-*  
19 *vidual to be temporarily assigned described in sub-*  
20 *section (b); and*

21 “(B) *with the consent of the individual to be*  
22 *temporarily assigned.*

23 “(2) *Members of the acquisition workforce are eligible*  
24 *for a temporary assignment under this section as follows:*

25 “(A) *Civilians in any of grades GS–12 through*  
26 *GS–15 under the General Schedule or, for employees*

1        *participating in the demonstration project under sec-*  
2        *tion 1762 of this title, the equivalent.*

3            *“(B) Members of the armed forces serving in any*  
4        *of pay grades O–3 through O–6.*

5            *“(3) A private-sector organization shall not be consid-*  
6        *ered to have a conflict of interest with the Department of*  
7        *Defense solely because of participation in the program es-*  
8        *tablished under this section.*

9            *“(b) AGREEMENTS.—(1) An agreement entered into*  
10       *under this section shall include the following:*

11            *“(A) The terms and conditions of a temporary*  
12        *assignment.*

13            *“(B) In the case of an agreement for the tem-*  
14        *porary assignment of a member of the acquisition*  
15        *workforce, a requirement that the member of the ac-*  
16        *quisition workforce, upon completion of the temporary*  
17        *assignment, will—*

18            *“(i) if a member of the armed forces, serve*  
19        *in the armed forces for a period equal to twice*  
20        *the length of the temporary assignment (in addi-*  
21        *tion to any other period of obligated service); or*

22            *“(ii) if a civilian, serve in the Department*  
23        *of Defense, or elsewhere in the civil service if ap-*  
24        *proved by the Secretary, for a period equal to*  
25        *twice the length of the temporary assignment.*

1           “(C) A provision that if the individual to be  
2 temporarily assigned fails to carry out the agreement,  
3 such individual shall be liable to the United States for  
4 payment of all expenses of the assignment, unless that  
5 failure was for good and sufficient reason, as deter-  
6 mined by the Secretary of Defense.

7           “(D) In the case of an agreement for the tem-  
8 porary assignment of a member of the acquisition  
9 workforce, language ensuring that such member of the  
10 acquisition workforce does not improperly use pre-  
11 decisional or draft deliberative information that such  
12 member may be privy to or aware of related to De-  
13 partment programing, budgeting, resourcing, acquisi-  
14 tion, or procurement for the benefit or advantage of  
15 the private-sector organization.

16           “(2) An amount for which an individual is liable  
17 under paragraph (1)(C) shall be treated as a debt due the  
18 United States.

19           “(3) The Secretary may waive, in whole or in part,  
20 collection of a debt described in paragraph (2) based on a  
21 determination that the collection would be against equity  
22 and good conscience and not in the best interests of the  
23 United States, after taking into account any indication of  
24 fraud, misrepresentation, fault, or lack of good faith on the  
25 part of the individual who is liable for the debt.

1           “(c) *TERMINATION.*—*An assignment under this section*  
2 *may, at any time and for any reason, be terminated by*  
3 *the Department of Defense or the private-sector organiza-*  
4 *tion concerned.*

5           “(d) *DURATION.*—(1) *Except as provided in para-*  
6 *graph (2), an assignment under this section shall be for a*  
7 *period of not more than two years, renewable up to a total*  
8 *of four years.*

9           “(2) *An assignment under this section may be for a*  
10 *period in excess of two years, but not more than four years,*  
11 *if the Secretary determines that such assignment is nec-*  
12 *essary to meet critical mission or program requirements.*

13           “(3) *A member of the acquisition workforce may not*  
14 *be assigned under this section for more than a total of four*  
15 *years inclusive of all such assignments.*

16           “(e) *STATUS OF INDIVIDUALS ASSIGNED TO PRIVATE-*  
17 *SECTOR ORGANIZATIONS.*—(1) *A member of the acquisition*  
18 *workforce who is assigned to a private-sector organization*  
19 *under this section shall be considered, during the period of*  
20 *assignment, to be on detail to a regular duty or work as-*  
21 *signment, as applicable, in the Department for all purposes.*

22           “(2) *In the case of a civilian member of the acquisition*  
23 *workforce, the written agreement established under sub-*  
24 *section (b)(1)—*

1           “(A) shall address the specific terms and condi-  
2           tions related to the civilian member’s continued status  
3           as a Federal employee; and

4           “(B) in the case of an assignment of nine months  
5           or longer, shall provide that, if the civilian member  
6           successfully completes the assignment (as determined  
7           by the Secretary), the civilian member shall be eligi-  
8           ble for consideration for placement in a new position  
9           under programs of the Department of Defense pro-  
10          viding priority placement to certain employees.

11          “(3) With respect to an assignment of a member of  
12          the acquisition workforce under this section, the Sec-  
13          retary—

14                 “(A) may, in the case of a civilian member of the  
15                 acquisition workforce, provide for the performance,  
16                 during the member’s absence, of the normal duties  
17                 and functions of that member by making a temporary  
18                 or term appointment under general civil service au-  
19                 thorities for such appointments;

20                 “(B) shall ensure that the normal duties and  
21                 functions of the civilian member of the acquisition  
22                 workforce described in subparagraph (A) can be rea-  
23                 sonably performed by other personnel of the Depart-  
24                 ment of Defense without the permanent transfer or  
25                 permanent reassignment of other personnel of the De-

1        *partment of Defense, including members of the armed*  
2        *forces;*

3                *“(C) shall ensure that the normal duties and*  
4        *functions of the acquisition workforce member are not,*  
5        *as a result of and during the course of such tem-*  
6        *porary assignment, performed or augmented by con-*  
7        *tractor personnel in violation of the provisions of sec-*  
8        *tion 2461 of this title; and*

9                *“(D) shall certify that the temporary assignment*  
10        *of the acquisition workforce member will not have an*  
11        *adverse or negative impact on mission attainment,*  
12        *warfighter support, or organizational capabilities as-*  
13        *sociated with the assignment.*

14                *“(f) TERMS AND CONDITIONS FOR PRIVATE-SECTOR*  
15        *EMPLOYEES.—An employee of a private-sector organization*  
16        *who is assigned to a Department of Defense organization*  
17        *under this section—*

18                *“(1) shall continue to receive pay and benefits*  
19        *from the private-sector organization from which such*  
20        *employee is assigned and shall not receive pay or ben-*  
21        *efits from the Department of Defense, except as pro-*  
22        *vided in paragraph (2);*

23                *“(2) is deemed to be an employee of the Depart-*  
24        *ment of Defense for the purposes of—*

25                *“(A) chapters 73 and 81 of title 5;*

1           “(B) sections 201, 203, 205, 207, 208, 209,  
2           603, 606, 607, 643, 654, 1905, and 1913 of title  
3           18;

4           “(C) sections 1343, 1344, and 1349(b) of  
5           title 31;

6           “(D) the Federal Tort Claims Act and any  
7           other Federal tort liability statute;

8           “(E) the Ethics in Government Act of 1978;  
9           and

10          “(F) chapter 21 of title 41;

11          “(3) shall not have access to any trade secrets or  
12          to any other nonpublic information which is of com-  
13          mercial value to the private-sector organization from  
14          which such employee is assigned;

15          “(4) may perform work that is considered inher-  
16          ently governmental in nature only when requested in  
17          writing by the Secretary of Defense; and

18          “(5) may not be used to circumvent the provision  
19          of section 2461 of this title nor to circumvent any  
20          limitation or restriction on the size of the Depart-  
21          ment’s workforce.

22          “(g) *PROHIBITION AGAINST CHARGING CERTAIN*  
23          *COSTS TO THE FEDERAL GOVERNMENT.*—A private-sector  
24          organization may not charge the Department or any other  
25          agency of the Federal Government, as direct or indirect

1 *costs under a Federal contract, the costs of pay or benefits*  
2 *paid by the organization to an employee assigned to a De-*  
3 *partment organization under this section for the period of*  
4 *the assignment.*

5       “(h) *CONSIDERATION OF TRAINING NEEDS FOR MEM-*  
6 *BERS OF THE ACQUISITION WORKFORCE.—In carrying out*  
7 *this section, the Secretary of Defense shall take into consid-*  
8 *eration how assignments under this section might best be*  
9 *used to help meet the needs of the Department of Defense*  
10 *with respect to the training of members of the acquisition*  
11 *workforce.*

12       “(i) *FUNDING; USE OF DEFENSE ACQUISITION WORK-*  
13 *FORCE DEVELOPMENT FUND.—Funds for the expenses for*  
14 *the program established under this section shall be provided*  
15 *from amounts in the Department of Defense Acquisition*  
16 *Workforce Development Fund. Expenses for the program in-*  
17 *clude—*

18               “(1) *notwithstanding section 1705(e)(5) of this*  
19 *title, the base salary of a civilian member of the ac-*  
20 *quisition workforce assigned to a private-sector orga-*  
21 *nization under this section, during the period of that*  
22 *assignment;*

23               “(2) *expenses relating to assignment under this*  
24 *section of a member of the acquisition workforce away*

1       *from the member's regular duty station, including ex-*  
2       *penditures for travel, per diem, and lodging; and*

3               “(3) *expenses for the administration of the pro-*  
4       *gram.*”.

5               (2) *CLERICAL AMENDMENT.—The table of sec-*  
6       *tions at the beginning of such subchapter is amended*  
7       *by adding at the end the following new item:*

      “1749. *Public-private exchange program for the acquisition workforce.*”.

8               (b) *USE OF DEFENSE ACQUISITION WORKFORCE DE-*  
9       *VELOPMENT FUND.—Section 1705(e)(1) of such title is*  
10       *amended by adding at the end the following new subpara-*  
11       *graph:*

12                       “(C) *Amounts in the Fund shall be used to*  
13               *pay the expenses of the Public-Private Exchange*  
14               *Program for the Acquisition Workforce under*  
15               *section 1749 of this title.*”.

16               (c) *ACQUISITION WORKFORCE EMPLOYEES EXCLUDED*  
17       *FROM PUBLIC-PRIVATE TALENT EXCHANGE.—*

18               (1) *IN GENERAL.—Section 1599g of such title is*  
19       *amended by adding at the end the following new sub-*  
20       *section:*

21                       “(i) *ACQUISITION WORKFORCE EM-*  
22               *PLOYEES.—An employee of the Department*  
23               *of Defense who is eligible for the Public-Pri-*  
24               *rate Exchange Program for the Acquisition*  
25               *Workforce under section 1749 of this title is*

1           *not eligible for an assignment under this*  
2           *section.”.*

3           (2) *APPLICABILITY.*—*Subsection (i) of section*  
4           *1599g of title 10, United States Code, as added by*  
5           *paragraph (1), shall not apply to an employee of the*  
6           *Department of Defense who entered into an agreement*  
7           *under that section before the date of the enactment of*  
8           *this Act.*

9   **SEC. 843. INCENTIVES AND CONSIDERATION FOR QUALI-**  
10           **FIED TRAINING PROGRAMS.**

11           (a) *IN GENERAL.*—

12                   (1) *Chapter 141 of title 10, United States Code,*  
13           *is amended by inserting after section 2409 the fol-*  
14           *lowing new section:*

15   **“§2409a. Incentives and consideration for qualified**  
16           **training programs**

17           “(a) *INCENTIVES.*—*The Secretary of Defense shall de-*  
18           *velop workforce development investment incentives for a*  
19           *contractor that implements a qualified training program*  
20           *to develop the workforce of the contractor in a manner con-*  
21           *sistent with the needs of the Department of Defense.*

22           “(b) *CONSIDERATION OF QUALIFIED TRAINING PRO-*  
23           *GRAMS.*—*The Secretary of Defense shall revise the Depart-*  
24           *ment of Defense Supplement to the Federal Acquisition Reg-*  
25           *ulation to require that the system used by the Federal Gov-*

1 *ernment to monitor or record contractor past performance*  
2 *includes an analysis of the availability, quality, and effec-*  
3 *tiveness of a qualified training program of an offeror as*  
4 *part of the past performance rating of such offeror.*

5 “(c) *QUALIFIED TRAINING PROGRAM DEFINED.*—*The*  
6 *term ‘qualified training program’ means any of the fol-*  
7 *lowing:*

8 “(1) *A program eligible to receive funds under*  
9 *the Workforce Innovation and Opportunity Act (29*  
10 *U.S.C. 3101 et seq.).*

11 “(2) *A program eligible to receive funds under*  
12 *the Carl D. Perkins Career and Technical Education*  
13 *Act of 2006 (20 U.S.C. 2301 et seq.).*

14 “(3) *A program registered under the Act of Au-*  
15 *gust 16, 1937 (commonly known as the ‘National Ap-*  
16 *prenticeship Act’; Stat. 664, chapter 663; 29 U.S.C.*  
17 *50 et seq.).*

18 “(4) *Any other program determined to be a*  
19 *qualified training program for purposes of this sec-*  
20 *tion, and that meets the workforce needs of the De-*  
21 *partment of Defense, as determined by the Secretary*  
22 *of Defense.”.*

23 (2) *CLERICAL AMENDMENT.*—*The table of sec-*  
24 *tions at the beginning of such chapter is amended by*

1        *inserting after the item relating to section 2409 the*  
2        *following new item:*

      “2409a. *Incentives and consideration for qualified training programs.*”.

3    **SEC. 844. CERTIFICATION BY PROSPECTIVE MILITARY CON-**  
4                    **STRUCTION CONTRACTORS OF GOOD FAITH**  
5                    **EFFORT TO UTILIZE QUALIFIED APPREN-**  
6                    **TICES.**

7        (a) *REQUIREMENTS.*—*Subchapter III of chapter 169*  
8        *of title 10, United States Code, is amended by adding at*  
9        *the end the following new section:*

10    **“§2870. Utilization of qualified apprentices by mili-**  
11                    **tary construction contractors**

12        “(a) *CERTIFICATION REQUIRED.*—(1) *The Secretary of*  
13        *Defense shall require each prospective contractor on a mili-*  
14        *tary construction project to certify to the Secretary that,*  
15        *if awarded a contract for the project, the prospective con-*  
16        *tractor will make a good faith effort to meet or exceed the*  
17        *apprenticeship employment goal on such project.*

18        “(2) *If a prospective contractor fails to certify as re-*  
19        *quired by paragraph (1), the Secretary may not determine*  
20        *such prospective contractor to be a responsible contractor.*

21        “(b) *APPRENTICESHIP EMPLOYMENT GOAL.*—

22                    “(1) *IN GENERAL.*—*In this section, the term ‘ap-*  
23        *prenticeship employment goal’ means the utilization*  
24        *of qualified apprentices as not less than 20 percent of*

1        *the total workforce employed in an apprenticeable oc-*  
2        *cupation (as determined by the Secretary of Labor).*

3            “(2) *QUALIFIED APPRENTICE.*—*In paragraph*  
4        *(1), the term ‘qualified apprentice’ means an em-*  
5        *ployee participating in an apprenticeship program*  
6        *that is registered with—*

7            “(A) *the Office of Apprenticeship of the Em-*  
8        *ployment Training Administration of the De-*  
9        *partment of Labor pursuant to the Act of August*  
10        *16, 1937 (popularly known as the ‘National Ap-*  
11        *prenticeship Act’; 29 U.S.C. 50 et seq.); or*

12            “(B) *a State apprenticeship agency recog-*  
13        *nized by such Office of Apprenticeship pursuant*  
14        *to such Act.*

15            “(c) *CONSIDERATION OF APPRENTICESHIP EMPLOY-*  
16        *MENT GOAL.*—*The Secretary of Defense shall revise the De-*  
17        *fense Supplement to the Federal Acquisition Regulation to*  
18        *require that the system used by the Federal Government to*  
19        *monitor or record contractor past performance includes an*  
20        *analysis of whether the contractor has made a good faith*  
21        *effort to meet or exceed the apprenticeship employment goal,*  
22        *including consideration of actual utilization by the con-*  
23        *tractor of qualified apprentices, as part of the past perform-*  
24        *ance rating of such contractor.*

1           “(d) *INCENTIVES.*—*The Secretary of Defense shall de-*  
2 *velop incentives for prospective contractors on military con-*  
3 *struction projects to meet or exceed the apprenticeship em-*  
4 *ployment goal.*”.

5           (b) *CLERICAL AMENDMENT.*—*The table of sections at*  
6 *the beginning of subchapter III of chapter 169 of title 10,*  
7 *United States Code, is amended by adding at the end the*  
8 *following new item:*

          “2870. *Utilization of qualified apprentices by military construction contractors.*”.

9           (c) *APPLICABILITY.*—*The amendments made by this*  
10 *section shall apply with respect to contracts awarded on*  
11 *or after the date that is 180 days after the date of the enact-*  
12 *ment of this Act.*

13       ***Subtitle D—Provisions Relating to***  
14                               ***Acquisition Security***

15       ***SEC. 851. SUPPLY CHAIN SECURITY OF CERTAIN TELE-***  
16                               ***COMMUNICATIONS AND VIDEO SURVEIL-***  
17                               ***LANCE SERVICES OR EQUIPMENT.***

18           (a) *ASSESSMENT.*—*The Secretary of Defense, in con-*  
19 *sultation with the Federal Acquisition Security Council (es-*  
20 *tablished under section 1322 of title 41, United States Code)*  
21 *and the Director of the Office of Management and Budget,*  
22 *shall conduct a comprehensive assessment of—*

23                       (1) *Department of Defense policies relating to*  
24                       *covered equipment and services;*

1           (2) covered equipment and services acquired or  
2           to be acquired for the Department; and

3           (3) systems of covered contractors to ensure the  
4           security of the supply chains of such covered con-  
5           tractor.

6           (b) *PURPOSE.*—The assessment described in subsection  
7 (a) shall include—

8           (1) an identification of instances in which the  
9           Federal Acquisition Security Council has identified  
10          supply chain risks (as defined in section 4713(k) of  
11          title 41, United States Code) that are specific to the  
12          defense industrial base and other threat assessments  
13          related to the procurement of covered articles (as de-  
14          fined in such section);

15          (2) an identification of and suggestions for guid-  
16          ance on the process of debarment and suspension (in-  
17          cluding debarment and suspension for nonprocure-  
18          ment programs and activities) of covered contractors  
19          to address supply chain risks relating to acquisitions  
20          for the Department of Defense, including acquisitions  
21          involving other executive agencies; and

22          (3) an identification of steps that could be taken  
23          to address situations identified under paragraphs (1)  
24          and (2) through the Interagency Suspension and De-

1 *barment Committee established under Executive*  
2 *Order 12549 (51 Fed. Reg. 6370).*

3 *(c) ACTIONS FOLLOWING ASSESSMENT.—Not later*  
4 *than 180 days after the date of the enactment of this Act,*  
5 *the Secretary shall, based on the results of the assessment*  
6 *required by subsection (a)—*

7 *(1) issue or revise guidance to ensure any entity*  
8 *within the Department of Defense that procures cov-*  
9 *ered equipment and services implements a risk-based*  
10 *approach with respect to such a procurement that ad-*  
11 *dresses—*

12 *(A) requirements for training personnel;*

13 *(B) the process for making sourcing deci-*  
14 *sions;*

15 *(C) with respect to a procurement of tele-*  
16 *communications equipment or video surveillance*  
17 *equipment, assurances relating to the*  
18 *traceability of parts of such equipment;*

19 *(D) the process for reporting suspect covered*  
20 *equipment and services; and*

21 *(E) corrective actions for the acquisition of*  
22 *suspect covered equipment and services (includ-*  
23 *ing actions to recover costs as described in sub-*  
24 *section (d)(2));*

1           (2) *issue or revise guidance to ensure that reme-*  
2           *dial actions, including debarment or suspension, are*  
3           *taken with respect to a covered contractor who has*  
4           *failed to detect and avoid suspect covered equipment*  
5           *and services or otherwise failed to exercise due dili-*  
6           *gence in the detection and avoidance of such suspect*  
7           *covered equipment and services;*

8           (3) *establish a process for ensuring that a De-*  
9           *partment of Defense employee provide a written re-*  
10          *port to the appropriate Government authorities and*  
11          *the Government-Industry Data Exchange Program*  
12          *(or a similar program designated by the Secretary)*  
13          *not later than 60 days after such an employee be-*  
14          *comes aware, or has reason to suspect that—*

15                 (A) *any end item, component, part, or ma-*  
16                 *terial contained in supplies purchased by or for*  
17                 *the Department contains suspect covered equip-*  
18                 *ment and services; or*

19                 (B) *a covered contractor has provided sus-*  
20                 *pect covered equipment and services; and*

21          (4) *establish a process for analyzing, assessing,*  
22          *and acting on reports of suspect covered equipment*  
23          *and services that are submitted in accordance with*  
24          *paragraph (3).*

25          (d) *REGULATIONS.—*

1           (1) *IN GENERAL.*—Not later than 270 days after  
2           the date of the enactment of this Act, the Secretary  
3           shall revise the Department of Defense Supplement to  
4           the Federal Acquisition Regulation to address the de-  
5           tection and avoidance of suspect covered equipment  
6           and services.

7           (2) *CONTRACTOR RESPONSIBILITIES.*—The re-  
8           vised regulations issued pursuant to paragraph (1)  
9           shall provide that—

10                   (A) covered contractors who supply covered  
11                   equipment or services are responsible for detect-  
12                   ing and avoiding the use or inclusion of suspect  
13                   covered equipment or services and for any con-  
14                   tract modification or corrective action that may  
15                   be required to remedy the use or inclusion of  
16                   such suspect covered equipment or services; and

17                   (B) the cost of suspect covered equipment or  
18                   services and the cost of contract modification or  
19                   corrective action that may be required to remedy  
20                   the use or inclusion of such suspect covered  
21                   equipment or services are not allowable costs  
22                   under defense contracts, unless—

23                           (i) the covered contractor has an oper-  
24                           ational system to detect and avoid suspect  
25                           covered equipment or services that has been

1           *reviewed and approved by the Secretary*  
2           *pursuant to subsection (e)(2)(B);*

3           *(ii) suspect covered equipment or serv-*  
4           *ices were provided to the covered contractor*  
5           *as Government property in accordance with*  
6           *part 45 of the Federal Acquisition Regula-*  
7           *tion or were obtained by the covered con-*  
8           *tractor in accordance with regulations de-*  
9           *scribed in paragraph (3); and*

10           *(iii) the covered contractor discovers*  
11           *the suspect covered equipment or services*  
12           *and provides timely notice to the Govern-*  
13           *ment pursuant to paragraph (4).*

14           (3) *REQUIREMENTS FOR SUPPLIERS.—The re-*  
15           *vised regulations issued pursuant to paragraph (1)*  
16           *shall—*

17           (A) *require that covered contractors obtain*  
18           *covered equipment or services—*

19           (i) *from the original manufacturers of*  
20           *the equipment or their authorized dealers,*  
21           *or from suppliers that meet requirements of*  
22           *subparagraph (C) or (D) and, with respect*  
23           *to suppliers of telecommunications equip-*  
24           *ment or video surveillance equipment, that*  
25           *obtain such equipment exclusively from the*

1           *original manufacturers of the parts of such*  
2           *equipment or their authorized dealers; and*

3                   *(ii) that are not in production or cur-*  
4           *rently available in stock from suppliers that*  
5           *meet requirements of subparagraph (C) or*  
6           *(D);*

7           *(B) establish requirements for notification*  
8           *of the Department, and for inspection, testing,*  
9           *and authentication of covered equipment and*  
10          *services that covered contractor obtains from an*  
11          *alternate supplier;*

12           *(C) establish qualification requirements,*  
13          *consistent with the requirements of section 2319*  
14          *of title 10, United States Code, pursuant to*  
15          *which the Secretary may identify suppliers that*  
16          *have appropriate policies and procedures in*  
17          *place to detect and avoid suspect covered equip-*  
18          *ment and services; and*

19           *(D) authorize covered contractors to identify*  
20          *and use suppliers that meet qualification re-*  
21          *quirements, provided that—*

22                   *(i) the standards and processes for*  
23           *identifying such suppliers comply with es-*  
24           *tablished industry standards; and*

1                   (ii) the selection of such suppliers is  
2                   subject to review, audit, and approval by  
3                   appropriate Department of Defense officials.

4                   (4) *REPORTING REQUIREMENT.*—The revised reg-  
5                   ulations issued pursuant to paragraph (1) shall re-  
6                   quire that any covered contractor provide a written  
7                   report to the appropriate Government authorities and  
8                   the Government-Industry Data Exchange Program  
9                   (or a similar program designated by the Secretary)  
10                  not later than 60 days after such covered contractor  
11                  becomes aware, or has reason to suspect that—

12                   (A) any end item, component, part, or ma-  
13                   terial contained in supplies purchased by or for  
14                   the Department contains suspect covered equip-  
15                   ment and services; or

16                   (B) a supplier of a covered contractor has  
17                   provided suspect covered equipment and services.

18                  (e) *IMPROVEMENT OF CONTRACTOR SYSTEMS FOR DE-*  
19                  *TECTION AND AVOIDANCE OF SUSPECT COVERED EQUIP-*  
20                  *MENT AND SERVICES.*—

21                   (1) *IN GENERAL.*—Not later than 270 days after  
22                   the date of the enactment of this Act, the Secretary  
23                   shall implement a program to enhance the detection  
24                   and avoidance of the acquisition of suspect covered  
25                   equipment and services by covered contractors.

1           (2) *ELEMENTS.*—*The program implemented pur-*  
2           *suant to paragraph (1) shall—*

3                   (A) *require covered contractors to establish*  
4                   *policies and procedures to eliminate suspect cov-*  
5                   *ered equipment and services from the defense*  
6                   *supply chain, which policies and procedures*  
7                   *shall address—*

8                           (i) *the training of personnel; and*

9                           (ii) *with respect to a procurement of*  
10                    *telecommunications equipment or video sur-*  
11                    *veillance equipment, the inspection and test-*  
12                    *ing of related materials and mechanisms to*  
13                    *enable traceability of parts of such equip-*  
14                    *ment; and*

15                   (B) *establish processes for the review and*  
16                    *approval of contractor systems for the detection*  
17                    *and avoidance of the acquisition of suspect cov-*  
18                    *ered equipment and services by covered contrac-*  
19                    *tors, which processes shall be comparable to the*  
20                    *processes established for contractor business sys-*  
21                    *tems under section 893 of the Ike Skelton Na-*  
22                    *tional Defense Authorization Act for Fiscal Year*  
23                    *2011 (Public Law 111–383; 124 Stat. 4311; 10*  
24                    *U.S.C. 2302 note).*

1           (f) *RULE OF CONSTRUCTION.*—*Nothing in this section*  
2 *shall be construed to prohibit the Secretary from entering*  
3 *into a contract with a covered contractor to provide a serv-*  
4 *ice that connects to the facilities of a third party, such as*  
5 *backhaul, roaming, or interconnection arrangements.*

6           (g) *REPORT TO CONGRESS.*—*Not later than 180 days*  
7 *after completing the assessment required under subsection*  
8 *(a), the Secretary shall submit to the congressional defense*  
9 *committees a report on the results of the assessment and*  
10 *the actions taken following the assessment pursuant to sub-*  
11 *section (c).*

12           (h) *DEFINITIONS.*—*In this section:*

13               (1) *COVERED EQUIPMENT AND SERVICES.*—*The*  
14 *term “covered equipment and services” means tele-*  
15 *communications equipment, telecommunications serv-*  
16 *ices, video surveillance equipment, and video surveil-*  
17 *lance services manufactured or controlled by an entity*  
18 *for which the principal place of business of such enti-*  
19 *ty is located in foreign country that is an adversary*  
20 *of the United States, but does not include tele-*  
21 *communications equipment or video surveillance*  
22 *equipment (other than optical transmission compo-*  
23 *nents) that cannot route or redirect user data traffic*  
24 *or permit visibility into any user data or packets*  
25 *that such equipment transmits or otherwise handles.*

1           (2) *COVERED CONTRACTOR.*—*The term “covered*  
2 *contractor” means a contractor or subcontractor (at*  
3 *any tier) that supplies covered equipment and serv-*  
4 *ices to the Department of Defense.*

5           (3) *EXECUTIVE AGENCY.*—*The term “executive*  
6 *agency” has the meaning given in section 133 of title*  
7 *41, United States Code.*

8           (4) *SECRETARY.*—*The term “Secretary” means*  
9 *the Secretary of Defense.*

10          (5) *SUSPECT COVERED EQUIPMENT AND SERV-*  
11 *ICES.*—*The term “suspect covered equipment and*  
12 *services” means covered equipment and services that*  
13 *is from any source, or that is a covered article, subject*  
14 *to an exclusion order or removal order under section*  
15 *1323(c) of title 41, United States Code.*

16 **SEC. 852. ASSURED SECURITY AGAINST INTRUSION ON**  
17 **UNITED STATES MILITARY NETWORKS.**

18          (a) *PROHIBITION.*—*Except as provided in subsections*  
19 *(b) and (c), the Secretary of Defense shall only award con-*  
20 *tracts for the procurement of telecommunications services*  
21 *or the installation of telecommunications infrastructure on*  
22 *national security installations on territories of the United*  
23 *States located in the Pacific Ocean to allowed contractors.*

24          (b) *EXCEPTION.*—*Subsection (a) shall not apply to*  
25 *contracts the procurement of telecommunications services or*

1 *the installation of telecommunications infrastructure if*  
2 *such telecommunications services or telecommunications in-*  
3 *frastructure does not process or carry any information*  
4 *about the operations of the Armed Forces of the United*  
5 *States or otherwise concern the national security of the*  
6 *United States.*

7       (c) *WAIVER.—The Secretary of Defense may waive the*  
8 *restriction of subsection (a) upon a written determination*  
9 *that such a waiver is in the national security interests of*  
10 *the United States and either—*

11           (1) *a contractor that is not an allowed con-*  
12 *tractor would not have the ability to track, record, lis-*  
13 *ten, or otherwise access data or voice communications*  
14 *of the Department of Defense through the provision of*  
15 *the telecommunications service; or*

16           (2) *a qualified allowed contractor is not avail-*  
17 *able to perform the contract at a fair and reasonable*  
18 *price.*

19       (d) *DEFINITIONS.—In this section:*

20           (1) *ALLOWED CONTRACTOR.—The term “allowed*  
21 *contractor” means—*

22                   (A) *an entity that is 100 percent owned by*  
23 *persons located in the United States that has*  
24 *submitted an offer for a contract let by the De-*  
25 *partment of Defense; or*

1           (B) *an entity that—*

2                   (i) *is 100 percent owned by persons lo-*  
3                   *cated in the United States or in a covered*  
4                   *foreign country that has submitted an offer*  
5                   *for a contract let by the Department of De-*  
6                   *fense; and*

7                   (ii) *does not have significant connec-*  
8                   *tions, including major equipment purchases,*  
9                   *ownership interests, or joint ventures, with*  
10                  *any entity identified in subsection (f)(3) of*  
11                  *section 889 of the John S. McCain National*  
12                  *Defense Authorization Act for Fiscal Year*  
13                  *2019 (Pub. L. 115-232; 132 Stat. 1918; 41*  
14                  *U.S.C. 3901 note)*

15           (2) *COVERED FOREIGN COUNTRY.—The term*  
16           *“covered foreign country” means a foreign country*  
17           *the government of which permits allowed contractors*  
18           *to compete on a fair basis for contracts for the pro-*  
19           *curement of telecommunications services or the instal-*  
20           *lation of telecommunications infrastructure let by the*  
21           *government of such foreign country.*

22           (3) *NATIONAL SECURITY INSTALLATION.—The*  
23           *term “national security installation” means any fa-*  
24           *ility operated by the Department of Defense.*

1           (4) *TELECOMMUNICATIONS SERVICE*.—The term  
2           “telecommunications service” has the meaning given  
3           in section 3 of the Communications Act of 1934 (47  
4           U.S.C. 153).

5           (5) *TELECOMMUNICATIONS INFRASTRUCTURE*.—  
6           The term “telecommunications infrastructure” means  
7           any wire or switching facilities used to provide tele-  
8           communications services.

9   **SEC. 853. REVISED AUTHORITIES TO DEFEAT ADVERSARY**  
10                   **EFFORTS TO COMPROMISE UNITED STATES**  
11                   **DEFENSE CAPABILITIES.**

12       (a) *SENSE OF CONGRESS*.—Congress finds that to  
13       comprehensively address the supply chain vulnerabilities of  
14       the Department of Defense, defense contractors must be  
15       incentivized to prioritize security in a manner which ex-  
16       ceeds basic compliance with mitigation practices relating  
17       to cybersecurity risk and supply chain security standards.  
18       Defense contractors can no longer pass unknown risks on  
19       to the Department of Defense but should be provided with  
20       the tools to meet the needs of the Department with respect  
21       to cybersecurity risk and supply chain security. Incentives  
22       for defense contractors will help stimulate efforts within the  
23       defense industrial base to minimize vulnerabilities in hard-  
24       ware, software, and supply chain services. The Department  
25       of Defense must develop policies and regulations that move

1 *security from a cost that defense contractors seek to mini-*  
2 *mize to a key consideration in the award of contracts, equal*  
3 *in importance to cost, schedule, and performance.*

4 (b) *INCLUSION OF SECURITY AS PRIMARY PURPOSE*  
5 *FOR THE DEPARTMENT OF DEFENSE ACQUISITION.—*

6 (1) *IN GENERAL.—Not later than 180 days after*  
7 *the date of the enactment of this Act, the Secretary of*  
8 *Defense shall the revise the statement of purpose in*  
9 *the Defense Federal Acquisition Regulation Supple-*  
10 *ment added by section 801(3) of the National Defense*  
11 *Authorization Act for Fiscal Year 2018 (Public Law*  
12 *115–91; 131 Stat. 1449; U.S.C. 2302 note) to include*  
13 *the security of goods acquired by the Department of*  
14 *Defense as one of the primary objectives of Depart-*  
15 *ment of Defense acquisition. The Secretary shall re-*  
16 *visе applicable Department of Defense Instructions,*  
17 *regulations, and directives to implement the inclusion*  
18 *of security as a primary purpose of Department of*  
19 *Defense acquisition.*

20 (2) *CONGRESSIONAL NOTIFICATION.—The Sec-*  
21 *retary shall submit to the congressional defense com-*  
22 *mittees—*

23 (A) *not later than 60 days before issuing*  
24 *the revisions described in paragraph (1), the pro-*  
25 *posed revisions; and*

1           (B) not later than 180 days after the date  
2           of the enactment of this Act, recommendations  
3           for legislative action to implement the revisions  
4           described in this subsection.

5           (c) *CERTIFICATION OF RISK.*—

6           (1) *IN GENERAL.*—Before making a milestone de-  
7           cision with respect to a major defense acquisition pro-  
8           gram (as defined under section 2430 of title 10,  
9           United States Code), a major automated information  
10          system, or major system (as defined under section  
11          2302d of title 10, United States Code), the vice chief  
12          of the Armed Force concerned shall issue a written as-  
13          sessment to the Vice Chief of the Joint Chiefs of Staff  
14          and the head of the Defense Acquisition Board stating  
15          the determination made by the vice chief of the armed  
16          force concerned of the risk to the supply chain associ-  
17          ated with the procurement. Such assessment shall in-  
18          clude—

19                (A) a description of actions taken to miti-  
20                gate potential vulnerabilities associated with the  
21                procurement; and

22                (B) a certification from the Secretary of the  
23                military department concerned or the Vice Chief  
24                of the Joint Chief of Staff (as appropriate) that  
25                the procurement will not interfere with the oper-

1           *ations of the military department conducting the*  
2           *procurement.*

3           (2) *AVAILABILITY TO THE CONGRESSIONAL DE-*  
4           *FENSE COMMITTEES.*—*Upon request, the vice chief of*  
5           *the Armed Force concerned shall make available to the*  
6           *congressional defense committees a certification re-*  
7           *quired under paragraph (1), along with the data on*  
8           *which such certification is based, not later than 15*  
9           *days after the submission of a request.*

10          (d) *DISPUTES RELATING TO ACQUISITIONS DECI-*  
11          *SIONS.*—*The Under Secretary of Defense for Intelligence,*  
12          *the Vice Chairman of the Joint Chiefs of Staff, the Vice*  
13          *Chief of Staff of the Army, the Vice Chief of Naval Oper-*  
14          *ations, the Vice Chief of Staff of the Air Force, and the As-*  
15          *sistant Commandant of the Marine Corps shall each have*  
16          *the authority to submit to the Secretary of Defense a written*  
17          *statement of dispute relating to a decision made by the De-*  
18          *fense Acquisition Board with respect to an acquisition. A*  
19          *dispute submitted under this subsection shall include any*  
20          *reason why the decision fails to effectively address concerns*  
21          *regarding the item to be acquired.*

1 **SEC. 854. PROHIBITION ON OPERATION OR PROCUREMENT**  
2 **OF FOREIGN-MADE UNMANNED AIRCRAFT**  
3 **SYSTEMS.**

4 (a) *PROHIBITION ON AGENCY OPERATION OR PRO-*  
5 *CUREMENT.—The Secretary of Defense may not operate or*  
6 *enter into or renew a contract for the procurement of—*

7 (1) *a covered unmanned aircraft system that—*

8 (A) *is manufactured in a covered foreign*  
9 *country or by an entity domiciled in a covered*  
10 *foreign country;*

11 (B) *uses flight controllers, radios, data*  
12 *transmission devices, cameras, or gimbals manu-*  
13 *factured in a covered foreign country or by an*  
14 *entity domiciled in a covered foreign country;*

15 (C) *uses a ground control system or oper-*  
16 *ating software developed in a covered foreign*  
17 *country or by an entity domiciled in a covered*  
18 *foreign country; or*

19 (D) *uses network connectivity or data stor-*  
20 *age located in or administered by an entity dom-*  
21 *iciled in a covered foreign country; or*

22 (2) *a system manufactured in a covered foreign*  
23 *country or by an entity domiciled in a covered for-*  
24 *ign country for the detection or identification of cov-*  
25 *ered unmanned aircraft systems.*

1       (b) *EXEMPTION.*—*The Secretary of Defense is exempt*  
2 *from the restriction under subsection (a) if the operation*  
3 *or procurement is for the purposes of—*

4           (1) *Counter-UAS surrogate testing and training;*

5       *or*

6           (2) *intelligence, electronic warfare, and informa-*  
7 *tion warfare operations, testing, analysis, and train-*  
8 *ing.*

9       (c) *WAIVER.*—*The Secretary of Defense may waive the*  
10 *restriction under subsection (a) on a case by case basis by*  
11 *certifying in writing to the congressional defense commit-*  
12 *tees that the operation or procurement is required in the*  
13 *national interest of the United States.*

14       (d) *DEFINITIONS.*—*In this section:*

15           (1) *COVERED FOREIGN COUNTRY.*—*The term*  
16 *“covered foreign country” means a country labeled as*  
17 *a strategic competitor in the “Summary of the 2018*  
18 *National Defense Strategy of the United States of*  
19 *America: Sharpening the American Military’s Com-*  
20 *petitive Edge” issued by the Department of Defense*  
21 *pursuant to section 113 of title 10, United States*  
22 *Code.*

23           (2) *COVERED UNMANNED AIRCRAFT SYSTEM.*—  
24 *The term “covered unmanned aircraft system” means*

1        *an unmanned aircraft system and any related serv-*  
2        *ices and equipment.*

3        **SEC. 855. SUPPLY CHAIN RISK MITIGATION POLICIES TO BE**  
4                                    **IMPLEMENTED THROUGH REQUIREMENTS**  
5                                    **GENERATION PROCESS.**

6        (a) *PROCESS FOR ENHANCED SUPPLY CHAIN SCRU-*  
7        *TINY.*—Section 807(b) of the National Defense Authoriza-  
8        *tion Act for Fiscal Year 2018 (Public Law 115–91; 131*  
9        *Stat. 1456; 10 U.S.C. 2302 note) is amended—*

10                    (1) *by redesignating paragraphs (5) through (9)*  
11                    *as paragraphs (6) through (10), respectively; and*

12                    (2) *by inserting after paragraph (4) the fol-*  
13                    *lowing new paragraph:*

14                    “(5) *Development of tools for implementing sup-*  
15                    *ply chain risk management policies during the gen-*  
16                    *eration of requirements for a contract.”.*

17        (b) *TECHNICAL AMENDMENT.*—Subsection (a) of such  
18        *section is amended by striking “Not later than” and all*  
19        *that follows through “the Secretary” and inserting “The*  
20        *Secretary”.*

21        (c) *EFFECTIVE DATE.*—Not later than 90 days after  
22        *the date of the enactment of this Act, the Secretary of De-*  
23        *fense shall revise the process established under section 807*  
24        *of the National Defense Authorization Act for Fiscal Year*

1 2018 (Public Law 115–91; 10 U.S.C. 2302 note) to carry  
2 out the requirements of this section.

3 ***Subtitle E—Provisions Relating to***  
4 ***the Acquisition System***

5 ***SEC. 861. MODIFICATIONS TO THE DEFENSE ACQUISITION***  
6 ***SYSTEM.***

7 (a) *GUIDANCE, REPORTS, AND LIMITATION ON THE*  
8 *AVAILABILITY OF FUNDS RELATING TO COVERED DEFENSE*  
9 *BUSINESS SYSTEMS.—*

10 (1) *AMENDMENTS TO GUIDANCE FOR COVERED*  
11 *DEFENSE BUSINESS SYSTEMS.—Section 2222(d) of*  
12 *title 10, United States Code, is amended—*

13 (A) *in the matter preceding paragraph (1),*  
14 *by striking “subsection (c)(1)” and inserting*  
15 *“subsection (c)”;* and

16 (B) *by adding at the end the following new*  
17 *paragraphs:*

18 “(7) *Policy to ensure a covered defense business*  
19 *system is in compliance with the Department’s*  
20 *auditability requirements.*

21 “(8) *Policy to ensure approvals required for the*  
22 *development of a covered defense business system.”.*

23 (2) *REPORTS.—*

24 (A) *GUIDANCE.—The Secretary of Defense*  
25 *shall submit to the congressional defense commit-*

1            *tees (as defined in section 101(a)(16) of title 10,*  
2            *United States Code) a report—*

3                    *(i) not later than December 31, 2019,*  
4                    *that includes the guidance required under*  
5                    *paragraph (1) of section 2222(c) of title 10,*  
6                    *United States Code; and*

7                    *(ii) not later than March 31, 2020,*  
8                    *that includes the guidance required under*  
9                    *paragraph (2) of such section.*

10            *(B) INFORMATION TECHNOLOGY ENTER-*  
11            *PRISE ARCHITECTURE.—Not later than Decem-*  
12            *ber 31, 2019, the Chief Information Officer of the*  
13            *Department of Defense shall submit to the con-*  
14            *gressional defense committees the information*  
15            *technology enterprise architecture developed*  
16            *under section 2222(e)(4)(B) of title 10, United*  
17            *States Code, which shall include the plan for im-*  
18            *proving the information technology and com-*  
19            *puting infrastructure described in such section*  
20            *and a schedule for implementing the plan.*

21            *(C) DEFENSE BUSINESS ENTERPRISE AR-*  
22            *CHITECTURE.—Not later than March 31, 2020,*  
23            *the Chief Management Officer of the Department*  
24            *of Defense and the Chief Information Officer of*  
25            *the Department of Defense shall jointly submit to*

1           *the congressional defense committees a plan and*  
2           *schedule for integrating the defense business en-*  
3           *terprise architecture developed under subsection*  
4           *(e) of section 2222 of title 10, United States*  
5           *Code, into the information technology enterprise*  
6           *architecture, as required under paragraph (4)(A)*  
7           *of such subsection.*

8           (3) *LIMITATION.*—

9                   (A) *Of the funds authorized to be appro-*  
10                  *priated by this Act or otherwise made available*  
11                  *for fiscal year 2020 for the Department of De-*  
12                  *fense, not more than 75 percent may be obligated*  
13                  *or expended for the Office of the Secretary of De-*  
14                  *fense after December 31, 2019, until the date on*  
15                  *which the Secretary of Defense submits the report*  
16                  *required under subsection (b)(1)(A).*

17                   (B) *Of the funds authorized to be appro-*  
18                  *priated by this Act or otherwise made available*  
19                  *for fiscal year 2020 for the Department of De-*  
20                  *fense, not more than 75 percent may be obligated*  
21                  *or expended for the Office of the Deputy Chief*  
22                  *Management Officer, the Office of the Under Sec-*  
23                  *retary of Defense for Acquisition and*  
24                  *Sustainment, the Office of the Chief Information*  
25                  *Officer, and the Office of the Chief Management*

1           *Officer after March 31, 2020, until the date on*  
2           *which the Secretary of Defense submits the report*  
3           *required under subsection (b)(1)(B).*

4           *(C) Of the funds authorized to be appro-*  
5           *priated by this Act or otherwise made available*  
6           *for fiscal year 2020 for the Department of De-*  
7           *fense, not more than 75 percent may be obligated*  
8           *or expended for the Office of the Chief Informa-*  
9           *tion Officer after December 31, 2019, until the*  
10          *date on which the Secretary of Defense submits*  
11          *the report required under subsection (b)(2).*

12          *(D) Of the funds authorized to be appro-*  
13          *priated by this Act or otherwise made available*  
14          *for fiscal year 2020 for the Department of De-*  
15          *fense, not more than 75 percent may be obligated*  
16          *or expended for the Office of the Chief Manage-*  
17          *ment Officer and the Office of the Chief Informa-*  
18          *tion Officer after March 31, 2020, until the date*  
19          *on which the Secretary of Defense submits the re-*  
20          *port required under subsection (b)(3).*

21          *(b) PILOT PROGRAM ON DATA RIGHTS AS AN EVALUA-*  
22          *TION FACTOR.—*

23                 *(1) PILOT PROGRAM.—Not later than February*  
24                 *1, 2020, the Secretary of Defense and the Secretaries*  
25                 *of the military departments shall jointly carry out a*

1 *pilot program to assess mechanisms to evaluate intel-*  
2 *lectual property to include technical data deliverables,*  
3 *associated license rights, and commercially available*  
4 *intellectual property valuation analysis and tech-*  
5 *niques in major defense acquisition programs (as de-*  
6 *finied in section 2430 of title 10, United States Code)*  
7 *selected pursuant to subsection (b) to ensure—*

8 *(A) the development of cost-effective intellec-*  
9 *tual property strategies; and*

10 *(B) assessment and management of the*  
11 *value and costs of intellectual property during*  
12 *acquisition and sustainment activities through-*  
13 *out the life cycle of a weapon system for each se-*  
14 *lected major defense acquisition program.*

15 *(2) SELECTION OF MAJOR DEFENSE ACQUISITION*  
16 *PROGRAMS.—Each Secretary of a military depart-*  
17 *ment shall select one major defense acquisition pro-*  
18 *gram for which such Secretary has responsibility to*  
19 *include in the pilot program established under sub-*  
20 *section (a).*

21 *(3) CADRE OF INTELLECTUAL PROPERTY EX-*  
22 *PERTS.—At Milestone A and Milestone B for each*  
23 *major defense acquisition program selected pursuant*  
24 *to subsection (b), the cadre of intellectual property ex-*  
25 *perts established under section 2322(b) of title 10,*

1 *United States Code, shall identify, to the maximum*  
2 *extent practicable, intellectual property evaluation*  
3 *techniques to obtain quantitative and qualitative*  
4 *analysis related to the value of intellectual property*  
5 *rights during the procurement, production, deploy-*  
6 *ment, operations, and support phases of the acquisi-*  
7 *tion of each such major defense acquisition program.*

8 (4) *ACTIVITIES.*—*The pilot program established*  
9 *under this section shall include the following:*

10 (A) *Assessment of commercial valuation*  
11 *techniques for intellectual property rights for use*  
12 *by the Department of Defense.*

13 (B) *Assessment of feasibility of oversight by*  
14 *the Secretary of Defense to standardize practices*  
15 *and procedures.*

16 (C) *Assessment of contracting mechanisms*  
17 *to increase the speed of delivery of intellectual*  
18 *property to the Armed Forces or to reduce*  
19 *sustainment costs.*

20 (D) *Assessment of acquisition planning nec-*  
21 *essary to ensure procurement of intellectual*  
22 *property deliverables and intellectual property*  
23 *rights necessary for Government-planned*  
24 *sustainment activities.*

1                   (E) *Engagement with private-sector entities*

2                   to—

3                   (i) *support the development of strate-*  
4                   *gies and program requirements to aid in*  
5                   *acquisition and transition planning for in-*  
6                   *tellectual property;*

7                   (ii) *support the development and im-*  
8                   *provement of intellectual property strategies*  
9                   *as part of life-cycle sustainment plans and*  
10                  *valuation techniques for the costs of intellec-*  
11                  *tual property rights as part of life-cycle*  
12                  *costs; and*

13                  (iii) *propose and implement alter-*  
14                  *native and innovative methods of intellec-*  
15                  *tual property valuation, prioritization, and*  
16                  *evaluation techniques for intellectual prop-*  
17                  *erty.*

18                  (F) *Recommendations to the program man-*  
19                  *ager for a major defense acquisition program se-*  
20                  *lected pursuant to subsection (b) such evaluation*  
21                  *techniques and contracting mechanisms for im-*  
22                  *plementation into the acquisition and*  
23                  *sustainment activities of that major defense ac-*  
24                  *quisition program.*

1           (5) *ASSESSMENT.*—*Not later than February 1,*  
2           *2021, and annually thereafter until the termination*  
3           *date of the pilot program, the Secretary of Defense*  
4           *shall submit to the congressional defense committees a*  
5           *report on the pilot program established under sub-*  
6           *section (a). The report shall include—*

7                   (A) *a description of the major defense ac-*  
8                   *quisition programs selected pursuant to sub-*  
9                   *section (b);*

10                   (B) *a description of the specific activities in*  
11                   *subsection (d) that were performed with respect*  
12                   *to each major defense acquisition program se-*  
13                   *lected pursuant to subsection (b);*

14                   (C) *an assessment of the effectiveness of such*  
15                   *activities;*

16                   (D) *an assessment of improvements to ac-*  
17                   *quisition or sustainment activities related to the*  
18                   *pilot program; and*

19                   (E) *an assessment of cost savings from the*  
20                   *activities related to the pilot program, including*  
21                   *any improvement to mission success during the*  
22                   *operations and support phase of a major defense*  
23                   *acquisition program selected pursuant to sub-*  
24                   *section (b).*

1           (6) *TERMINATION.*—*The authority to carry out*  
2           *the pilot program under this section shall expire on*  
3           *September 30, 2026.*

4           (c) *REPORT AND LIMITATION ON AVAILABILITY OF*  
5           *FUNDS RELATING TO MODULAR OPEN SYSTEM APPROACH*  
6           *FOR MAJOR DEFENSE ACQUISITION PROGRAMS.*—

7           (1) *STUDY GUIDANCE FOR ANALYSES OF ALTER-*  
8           *NATIVES FOR MAJOR DEFENSE ACQUISITION PRO-*  
9           *GRAMS.*—

10           (A) *REPORT.*—*Not later than December 31,*  
11           *2019, the Secretary of Defense, acting through*  
12           *the Director of Cost Assessment and Performance*  
13           *Evaluation, shall submit to the congressional de-*  
14           *fense committees a report that includes the study*  
15           *guidance required under section 2446b(b) of title*  
16           *10, United States Code.*

17           (B) *LIMITATION.*—*Of the funds authorized*  
18           *to be appropriated by this Act or otherwise made*  
19           *available for fiscal year 2020 for the Department*  
20           *of Defense, not more than 75 percent may be ob-*  
21           *ligated or expended for the Office of the Director*  
22           *of Cost Assessment and Performance Evaluation*  
23           *after December 31, 2019, until the date on which*  
24           *the Secretary of Defense submits the report re-*  
25           *quired under paragraph (1).*

1           (2) *POLICY RELATING TO AVAILABILITY OF*  
2 *MAJOR SYSTEM INTERFACES AND SUPPORT FOR MOD-*  
3 *ULAR OPEN SYSTEM APPROACH.—*

4           (A) *IN GENERAL.—Section 2446c of title 10,*  
5 *United States Code, is amended—*

6           (i) *in the matter preceding paragraph*  
7 *(1), by striking “shall—” and inserting*  
8 *“develop policy on the support for the ac-*  
9 *quisition for modular open system ap-*  
10 *proaches. This policy shall—”; and*

11           (ii) *in subsection (a)(1), as so des-*  
12 *ignated, by striking “coordinate” and in-*  
13 *serting “ensure coordination”.*

14           (B) *REPORT.—Not later than December 31,*  
15 *2019, the Secretary of each military department*  
16 *shall submit to the congressional defense commit-*  
17 *tees a report that includes the policy required*  
18 *under section 2446c of title 10, United States*  
19 *Code, as amended by paragraph (1).*

20           (C) *LIMITATION.—Beginning on January 1,*  
21 *2020, if any report required under paragraph*  
22 *(2) has not been submitted to the congressional*  
23 *defense committees, not more than 75 percent of*  
24 *the funds specified in paragraph (4) may be ob-*  
25 *ligated or expended until the date on which all*

1           *of the reports required under paragraph (2) have*  
2           *been submitted.*

3           *(D) FUNDS SPECIFIED.—The funds speci-*  
4           *fied in this paragraph are funds made available*  
5           *for fiscal year 2020 for the Department of De-*  
6           *fense for any of the Offices of the Secretaries of*  
7           *the military departments that remain unobli-*  
8           *gated as of January 1, 2020.*

9           *(d) REPORT ON INTELLECTUAL PROPERTY POLICY*  
10          *AND THE CADRE OF INTELLECTUAL PROPERTY EX-*  
11          *PERTS.—*

12           *(1) IN GENERAL.—Section 802 of the National*  
13           *Defense Authorization Act for Fiscal Year 2018 (Pub-*  
14           *lic Law 115–91; 131 Stat. 1450) is amended by add-*  
15           *ing at the end the following new subsection:*

16           *“(c) REPORT.—Not later than October 1, 2019, the*  
17           *Secretary of Defense, acting through the Under Secretary*  
18           *of Defense for Acquisition and Sustainment, shall submit*  
19           *to the congressional defense committees a report that in-*  
20           *cludes—*

21           *“(1) the policy required in subsection (a) of sec-*  
22           *tion 2322 of title 10, United States Code;*

23           *“(2) an identification of each member of the*  
24           *cadre of intellectual property experts required in sub-*

1        *section (b) of such section and the office to which such*  
2        *member; and*

3            *“(3) a description of the leadership structure and*  
4        *the office that will manage the cadre of intellectual*  
5        *property experts.”.*

6            *(2) LIMITATION.—Of the funds authorized to be*  
7        *appropriated by this Act or otherwise made available*  
8        *for fiscal year 2020 for the Department of Defense,*  
9        *not more than 75 percent may be obligated or ex-*  
10       *pended for the Defense Acquisition Workforce Develop-*  
11       *ment Fund until the date on which the Secretary of*  
12       *Defense submits the report required under subsection*  
13       *(c) of section 802 of the National Defense Authoriza-*  
14       *tion Act for Fiscal Year 2018 (Public Law 115–91;*  
15       *131 Stat. 1450), as added by this section.*

16           *(e) LIMITATION ON AVAILABILITY OF FUNDS FOR THE*  
17       *OFFICE OF THE CHIEF MANAGEMENT OFFICER OF THE DE-*  
18       *PARTMENT OF DEFENSE.—Of the funds authorized to be ap-*  
19       *propriated or otherwise made available for fiscal year 2020*  
20       *for the Department of Defense, not more than 75 percent*  
21       *may be obligated or expended for the Office of the Chief*  
22       *Management Officer until the date on which the Chief Man-*  
23       *agement Officer submits to the congressional defense com-*  
24       *mittees—*

1           (1) *the certification of cost savings described in*  
2           *subparagraph (A) of section 921(b)(5) of the National*  
3           *Defense Authorization Act for Fiscal Year 2019 (Pub-*  
4           *lic Law 115–232; 10 U.S.C. 2222 note); or*

5           (2) *the notice and justification described in sub-*  
6           *paragraph (B) of such section.*

7           (f) *REPORT AND LIMITATION ON THE AVAILABILITY OF*  
8           *FUNDS RELATING TO THE “MIDDLE TIER” OF ACQUI-*  
9           *SION PROGRAMS.—*

10           (1) *REPORT.—Not later than December 15, 2019,*  
11           *the Under Secretary of Defense for Acquisition and*  
12           *Sustainment shall submit to the congressional defense*  
13           *committees a report that includes the guidance re-*  
14           *quired under section 804(a) of the National Defense*  
15           *Authorization Act for Fiscal Year 2016 (Public Law*  
16           *114–92; 10 U.S.C. 2302 note). The Under Secretary*  
17           *of Defense for Acquisition and Sustainment will en-*  
18           *sure such guidance includes the business case elements*  
19           *required by an acquisition program established pur-*  
20           *suant to such guidance and the metrics required to*  
21           *assess the performance of such a program.*

22           (2) *LIMITATION.—Of the funds authorized to be*  
23           *appropriated by this Act or otherwise made available*  
24           *for fiscal year 2020 for the Department of Defense,*  
25           *not more than 75 percent may be obligated or ex-*

1        *pended for an acquisition program established pursu-*  
2        *ant to the guidance required under section 804(a) of*  
3        *the National Defense Authorization Act for Fiscal*  
4        *Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note)*  
5        *after December 15, 2019, and no such acquisition pro-*  
6        *gram may be conducted under the authority provided*  
7        *by such section after December 15, 2019, until the*  
8        *Under Secretary of Defense for Acquisition and*  
9        *Sustainment submits the report required under sub-*  
10       *section (a).*

11       *(g) DEFENSE ACQUISITION WORKFORCE CERTIFI-*  
12       *CATION AND EDUCATION REQUIREMENTS.—*

13                *(1) PROFESSIONAL CERTIFICATION REQUIRE-*  
14        *MENT.—*

15                        *(A) PROFESSIONAL CERTIFICATION RE-*  
16        *QUIRED FOR ALL ACQUISITION WORKFORCE PER-*  
17        *SONNEL.—Section 1701a of title 10, United*  
18        *States Code, is amended—*

19                                *(i) by redesignating subsections (c) and*  
20                                *(d) as subsections (d) and (e), respectively;*  
21                                *and*

22                                *(ii) by inserting after subsection (b)*  
23                                *the following new subsection (c):*

24        *“(c) PROFESSIONAL CERTIFICATION.—*

1           “(1) *The Secretary of Defense shall implement a*  
2 *certification program to provide for a professional*  
3 *certification requirement for all members of the acqui-*  
4 *sition workforce. Except as provided in paragraph*  
5 *(2), the certification requirement for any acquisition*  
6 *workforce career field shall be based on standards*  
7 *under a third-party accredited program based on na-*  
8 *tionally or internationally recognized standards.*

9           “(2) *If the Secretary determines that, for a par-*  
10 *ticular acquisition workforce career field, a third-*  
11 *party accredited program based on nationally or*  
12 *internationally recognized standards does not exist,*  
13 *the Secretary shall establish the certification require-*  
14 *ment for that career field that conforms with the*  
15 *practices of national or international accrediting bod-*  
16 *ies. The certification requirement for any such career*  
17 *field shall be implemented using the best approach de-*  
18 *termined by the Secretary for meeting the certifi-*  
19 *cation requirement for that career field, including im-*  
20 *plementation through entities outside the Department*  
21 *of Defense and may be designed and implemented*  
22 *without regard to section 1746 of this title.”.*

23                   (B) *PERFORMANCE MANAGEMENT.*—Sub-  
24                   *section (b) of such section is amended—*

1                   (i) in paragraph (5), by striking “en-  
2                   courage” and inserting “direct”; and

3                   (ii) in paragraph (6), by inserting  
4                   “and consequences” after “warnings”.

5                   (C) *PARTICIPATION IN PROFESSIONAL ASSO-*  
6                   *CIATIONS.*—Subsection (b) of such section is fur-  
7                   ther amended—

8                   (i) by redesignating paragraphs (6),  
9                   (7), (8), and (9) as paragraphs (7), (8), (9),  
10                  and (10), respectively; and

11                  (ii) by inserting after paragraph (5)  
12                  the following new paragraph (6):

13                  “(6) authorize members of the acquisition work-  
14                  force to participate in professional associations, con-  
15                  sistent with their individual performance plans,  
16                  linked to both professional development and opportu-  
17                  nities to gain leadership and management skills;”.

18                  (D) *GENERAL EDUCATION, TRAINING, AND*  
19                  *EXPERIENCE REQUIREMENTS.*—Section 1723 of  
20                  such title is amended—

21                  (i) in subsection (a)(3), by striking the  
22                  second sentence; and

23                  (ii) in subsection (b)(1), by striking  
24                  “encourage” and inserting “require”.

1           (E) *EFFECTIVE DATE.*—*The Secretary of*  
2           *Defense shall implement procedures to institute*  
3           *the program required by subsection (c) of section*  
4           *1701a of title 10, United States Code, as added*  
5           *by paragraph (1), not later than 180 days after*  
6           *the date of the enactment of this Act.*

7           (2) *ELIMINATION OF STATUTORY REQUIREMENT*  
8           *FOR COMPLETION OF 24 SEMESTER CREDIT HOURS.*—

9           (A) *QUALIFICATION REQUIREMENTS FOR*  
10           *CONTRACTING POSITIONS.*—*Section 1724 of title*  
11           *10, United States Code, is amended—*

12           (i) *in subsection (a)(3)—*

13                   (I) *by striking “(A)” after “(3)”;*

14                   *and*

15                   (II) *by striking “, and (B)” and*

16                   *all that follows through “and manage-*  
17                   *ment”;* *and*

18           (ii) *in subsection (b), by striking “re-*  
19           *quirements” in the first sentences of para-*  
20           *graphs (1) and (2) and inserting “require-*  
21           *ment”;*

22           (iii) *in subsection (e)(2)—*

23                   (I) *by striking “shall have—” and*

24                   *all that follows through “been award-*

1 *ed” and inserting “shall have been*  
2 *awarded”;*

3 *(II) by striking “; or” and insert-*  
4 *ing a period; and*

5 *(III) by striking subparagraph*  
6 *(B); and*

7 *(iv) in subsection (f), by striking “, in-*  
8 *cluding—” and all that follows and insert-*  
9 *ing a period.*

10 *(B) SELECTION CRITERIA AND PROCE-*  
11 *DURES.—Section 1732 of such title is amend-*  
12 *ed—*

13 *(i) in subsection (b)(1)—*

14 *(I) by striking “Such require-*  
15 *ments,” and all the follows through*  
16 *“the person—” and inserting “Such*  
17 *requirements shall include a require-*  
18 *ment that the person—”;*

19 *(II) by striking subparagraph*  
20 *(B); and*

21 *(III) by redesignating clauses (i)*  
22 *and (ii) as subparagraphs (A) and*  
23 *(B), respectively, and realigning those*  
24 *subparagraphs so as to be 4 ems from*  
25 *the margin; and*

1                   (ii) in subsection (c), by striking “re-  
2                   quirements of subsections (b)(1)(A) and  
3                   (b)(1)(B)” in paragraphs (1) and (2) and  
4                   inserting “requirement of subsection (b)(1)”.

5                   (3) *DEFENSE ACQUISITION UNIVERSITY*.—Sec-  
6                   tion 1746 of title 10, United States Code, is amend-  
7                   ed—

8                   (A) in subsection (b)(1), by adding at the  
9                   end the following new sentence: “At least 25 per-  
10                  cent of such civilian instructors shall be visiting  
11                  professors from civilian colleges or universities.”;  
12                  and

13                  (B) in subsection (c), by inserting “, and  
14                  with commercial training providers,” after  
15                  “military departments”.

16                  (h) *ENHANCING DEFENSE ACQUISITION WORKFORCE*  
17                  *CAREER FIELDS*.—

18                  (1) *CAREER PATHS*.—

19                  (A) *CAREER PATH REQUIRED FOR EACH AC-*  
20                  *QUISITION WORKFORCE CAREER FIELD*.—Para-  
21                  graph (4) of section 1701a(b) of title 10, United  
22                  States Code, is amended to read as follows:

23                  “(4) develop and implement a career path, as de-  
24                  scribed in section 1722(a) of this title, for each career  
25                  field designated by the Secretary under section

1       1721(a) of this title as an acquisition workforce ca-  
2       reer field;”.

3               (B) *CONFORMING AMENDMENTS.*—Section  
4       1722(a) of such title is amended—

5               (i) by striking “appropriate career  
6       paths” and inserting “an appropriate ca-  
7       reer path”; and

8               (ii) by striking “are identified” and  
9       inserting “is identified for each acquisition  
10      workforce career field”.

11              (C) *DEADLINE FOR IMPLEMENTATION OF*  
12      *CAREER PATHS.*—The implementation of a ca-  
13      reer path for each acquisition workforce career  
14      field required by paragraph (4) of section  
15      1701a(b) of title 10, United States Code (as  
16      amended by paragraph (1)), shall be completed  
17      by the Secretary of Defense not later than the  
18      end of the two-year period beginning on the date  
19      of the enactment of this Act.

20              (2) *CAREER FIELDS.*—

21              (A) *DESIGNATION OF ACQUISITION WORK-*  
22      *FORCE CAREER FIELDS.*—Section 1721(a) of  
23      such title is amended by adding at the end the  
24      following new sentence: “The Secretary shall also  
25      designate in regulations those career fields in the

1            *Department of Defense that are acquisition*  
 2            *workforce career fields for purposes of this chap-*  
 3            *ter.”.*

4            (B) *CLERICAL AMENDMENTS.—(i) The*  
 5            *heading of such section is amended to read as*  
 6            *follows:*

7            **“§ 1721. Designation of acquisition positions and ac-**  
 8            **quisition workforce career fields”.**

9            (ii) *The item relating to such section*  
 10            *in the table of sections at the beginning of*  
 11            *subchapter II of chapter 87 of such title is*  
 12            *amended to read as follows:*

*“1721. Designation of acquisition positions and acquisition workforce career fields.”.*

13            (C)(i) *The heading of subchapter II of chap-*  
 14            *ter 87 of such title is amended to read as follows:*

*“SUBCHAPTER II—ACQUISITION POSITIONS AND ACQUISITION WORKFORCE CAREER FIELDS”.*

15            (ii) *The item relating to such subchapter in*  
 16            *the table of subchapters at the beginning of such*  
 17            *chapter is amended to read as follows:*

*“II. Acquisition Positions And Acquisition Workforce Career Fields ..... 1721”.*

18            (D) *DEADLINE FOR DESIGNATION OF CA-*  
 19            *REER FIELDS.—The designation of acquisition*  
 20            *workforce career fields required by the second*  
 21            *sentence of section 1721(a) of title 10, United*  
 22            *States Code (as added by paragraph (1)), shall*

1           *be made by the Secretary of Defense not later*  
2           *than the end of the six-month period beginning*  
3           *on the date of the enactment of this Act.*

4           (3) *KEY WORK EXPERIENCES.*—

5                   (A) *DEVELOPMENT OF KEY WORK EXPERI-*  
6                   *ENCES FOR EACH ACQUISITION WORKFORCE CA-*  
7                   *REER FIELD.*—*Section 1722b of such title is*  
8                   *amended by adding at the end the following new*  
9                   *subsection:*

10           “(c) *KEY WORK EXPERIENCES.*—*In carrying out sub-*  
11           *section (b)(2), the Secretary shall ensure that key work expe-*  
12           *riences, in the form of multidiscipline training, are devel-*  
13           *oped for each acquisition workforce career field.”.*

14                   (B) *PLAN FOR IMPLEMENTATION OF KEY*  
15                   *WORK EXPERIENCES.*—*Not later than one year*  
16                   *after the date of the enactment of this Act, the*  
17                   *Secretary of Defense shall submit to the congres-*  
18                   *sional defense committees a plan identifying the*  
19                   *specific actions the Department of Defense has*  
20                   *taken, and is planning to take, to develop and*  
21                   *establish key work experiences for each acquisi-*  
22                   *tion workforce career field as required by sub-*  
23                   *section (c) of section 1722b of title 10, United*  
24                   *States Code, as added by paragraph (1). The*  
25                   *plan shall include specification of the percentage*

1           *of the acquisition workforce, or funds available*  
 2           *for administration of the acquisition workforce*  
 3           *on an annual basis, that the Secretary will dedi-*  
 4           *cate towards developing such key work experi-*  
 5           *ences.*

6           (4) *APPLICABILITY OF CAREER PATH REQUIRE-*  
 7           *MENTS TO ALL MEMBERS OF ACQUISITION WORK-*  
 8           *FORCE.—Section 1723(b) of such title is amended by*  
 9           *striking “the critical acquisition-related”.*

10           (5) *COMPETENCY DEVELOPMENT.—*

11                   (A) *IN GENERAL.—(i) Subchapter V of*  
 12                   *chapter 87 of such title is amended by adding at*  
 13                   *the end the following new section:*

14           **“§ 1765. Competency development**

15                   “(a) *IN GENERAL.—For each acquisition workforce ca-*  
 16                   *reer field, the Secretary of Defense shall establish, for the*  
 17                   *civilian personnel in that career field, defined proficiency*  
 18                   *standards and technical and nontechnical competencies*  
 19                   *which shall be used in personnel qualification assessments.*

20                   “(b) *NEGOTIATIONS.—Any action taken by the Sec-*  
 21                   *retary under this section, or to implement this section, shall*  
 22                   *not be subject to the requirements of chapter 71 of title 5.”.*

23                                   *(ii) The table of sections at the begin-*  
 24                                   *ning of such subchapter II is amended by*  
 25                                   *adding at the end the following new item:*

“1765. *Competency development.*”.

1           (B) *DEADLINE FOR IMPLEMENTATION.*—*The*  
2           *establishment of defined proficiency standards*  
3           *and technical and nontechnical competencies re-*  
4           *quired by section 1765 of title 10, United States*  
5           *Code (as added by paragraph (1)), shall be made*  
6           *by the Secretary of Defense not later than the*  
7           *end of the two-year period beginning on the date*  
8           *of the enactment of this Act.*

9           (6) *TERMINATION OF DEFENSE ACQUISITION*  
10          *CORPS.*—

11           (A) *The Acquisition Corps for the Depart-*  
12           *ment of Defense referred to in section 1731(a) of*  
13           *title 10, United States Code, is terminated.*

14           (B) *Section 1733 of title 10, United States*  
15           *Code, is amended—*

16                   (i) *by striking subsection (a); and*

17                   (ii) *by redesignating subsection (b) as*  
18                   *subsection (a).*

19           (C) *Subsection (b) of section 1731 of such*  
20           *title is transferred to the end of section 1733 of*  
21           *such title, as amended by paragraph (2), and*  
22           *amended—*

23                   (i) *by striking “ACQUISITION CORPS”*  
24                   *in the heading and inserting “THE ACQUI-*  
25                   *SITION WORKFORCE”;* and

1                   (ii) by striking “selected for the Acqui-  
2                   sition Corps” and inserting “in the acquisi-  
3                   tion workforce”.

4                   (D) Subsection (e) of section 1732 of such  
5                   title is transferred to the end of section 1733 of  
6                   such title, as amended by paragraphs (2) and  
7                   (3), redesignated as subsection (c), and amend-  
8                   ed—

9                   (i) by striking “in the Acquisition  
10                  Corps” in paragraphs (1) and (2) and in-  
11                  serting “in critical acquisition positions”;  
12                  and

13                  (ii) by striking “serving in the Corps”  
14                  in paragraph (2) and inserting “employ-  
15                  ment”.

16                  (E) Sections 1731 and 1732 of such title are  
17                  repealed.

18                  (F)(i) Section 1733 of such title, as amend-  
19                  ed by paragraphs (2), (3), and (4), is redesign-  
20                  ated as section 1731.

21                  (ii) The table of sections at the beginning of  
22                  subchapter III of chapter 87 of such title is  
23                  amended by striking the items relating to sec-  
24                  tions 1731, 1732, and 1733 and inserting the fol-  
25                  lowing new item:

“1731. Critical acquisition positions.”.

1           (G)(i) *The heading of subchapter III of*  
 2           *chapter 87 of such title is amended to read as*  
 3           *follows:*

“SUBCHAPTER III—CRITICAL ACQUISITION POSITIONS”.

4           (ii) *The item relating to such subchapter in*  
 5           *the table of subchapters at the beginning of such*  
 6           *chapter is amended to read as follows:*

“III. *Critical Acquisition Positions* ..... 1731”.

7           (H) *Section 1723(a)(2) of such title is*  
 8           *amended by striking “section 1733 of this title”*  
 9           *and inserting “section 1731 of this title”.*

10          (I) *Section 1725 of such title is amended—*

11           (i) *in subsection (a)(1), by striking*  
 12           *“Defense Acquisition Corps” and inserting*  
 13           *“acquisition workforce”; and*

14           (ii) *in subsection (d)(2), by striking*  
 15           *“of the Defense Acquisition Corps” and in-*  
 16           *serting “in the acquisition workforce serving*  
 17           *in critical acquisition positions”.*

18          (J) *Section 1734 of such title is amended—*

19           (i) *by striking “of the Acquisition*  
 20           *Corps” in subsections (e)(1) and (h) and in-*  
 21           *serting “of the acquisition workforce”; and*

22           (ii) *in subsection (g)—*

1                   (I) by striking “of the Acquisition  
2                   Corps” in the first sentence and insert-  
3                   ing “of the acquisition workforce”;

4                   (II) by striking “of the Corps”  
5                   and inserting “of the acquisition work-  
6                   force”; and

7                   (III) by striking “of the Acquisi-  
8                   tion Corps” in the second sentence and  
9                   inserting “of the acquisition workforce  
10                  in critical acquisition positions”.

11               (K) Section 1737 of such title is amended—

12                   (i) in subsection (a)(1), by striking “of  
13                   the Acquisition Corps” and inserting “of the  
14                   acquisition workforce”; and

15                   (ii) in subsection (b), by striking “of  
16                   the Corps” and inserting “of the acquisition  
17                   workforce”.

18               (L) Section 1742(a)(1) of such title is  
19               amended by striking “the Acquisition Corps”  
20               and inserting “acquisition positions in the De-  
21               partment of Defense”.

22               (M) Section 2228(a)(4) of such title is  
23               amended by striking “under section  
24               1733(b)(1)(C) of this title” and inserting “under  
25               section 1731 of this title”.

1           (N) Section 7016(b)(5)(B) of such title is  
2 amended by striking “under section 1733 of this  
3 title” and inserting “under section 1731 of this  
4 title”.

5           (O) Section 8016(b)(4)(B) of such title is  
6 amended by striking “under section 1733 of this  
7 title” and inserting “under section 1731 of this  
8 title”.

9           (P) Section 9016(b)(4)(B) of such title is  
10 amended by striking “under section 1733 of this  
11 title” and inserting “under section 1731 of this  
12 title”.

13           (Q) Paragraph (1) of section 317 of title 37,  
14 United States Code, is amended to read as fol-  
15 lows:

16           “(1) is a member of the acquisition workforce se-  
17 lected to serve in, or serving in, a critical acquisition  
18 position designated under section 1731 of title 10.”.

19           (i) *ESTABLISHMENT OF DEFENSE CIVILIAN ACQUI-  
20 SITION TRAINING CORPS.*—

21           (1) *IN GENERAL.*—Part III of subtitle A of title  
22 10, United States Code, is amended by inserting after  
23 chapter 112 the following new chapter:

1           **“CHAPTER 113—DEFENSE CIVILIAN**  
2                   **ACQUISITION TRAINING CORPS**

“2200n. *Establishment.*

“2200o. *Program elements.*

“2200p. *Model authorities.*

“2200q. *Definitions.*

3   **“§ 2200n. *Establishment***

4           *“For the purposes of preparing selected students for*  
5 *public service in Department of Defense occupations relat-*  
6 *ing to acquisition, science, and engineering, the Secretary*  
7 *of Defense shall establish and maintain a Defense Civilian*  
8 *Acquisition Training Corps program, organized into one*  
9 *or more units, at civilian institutions of higher education*  
10 *offering a program leading to a baccalaureate degree.*

11   **“§ 2200o. *Program elements***

12           *“In establishing the program, the Secretary of Defense*  
13 *shall determine the following:*

14                   *“(1) Criteria for an institution of higher edu-*  
15 *cation to participate in the program.*

16                   *“(2) The eligibility of a student to join the pro-*  
17 *gram.*

18                   *“(3) Criteria required for a member of the pro-*  
19 *gram to receive financial assistance.*

20                   *“(4) The term of service required for a member*  
21 *of the program to receive financial assistance.*

22                   *“(5) Criteria required for a member of the pro-*  
23 *gram to be released from a term of service.*

1           “(6) *The method by which a successful graduate*  
2           *of the program may gain immediate employment in*  
3           *the Department of Defense.*

4           “(7) *Resources required for implementation of*  
5           *the program.*

6           “(8) *A methodology to identify and target crit-*  
7           *ical skills gaps in Department of Defense occupations*  
8           *relating to acquisition, science, and engineering.*

9           “(9) *A mechanism to track the success of the pro-*  
10          *gram in eliminating the identified critical skills gap.*

11          **“§ 2200p. Model authorities**

12          *“In making determinations under section 2200o of this*  
13          *title, the Secretary of Defense shall use the authorities under*  
14          *chapters 103 and 111 of this title as guides.*

15          **“§ 2200q. Definitions**

16          *“In this chapter:*

17                 “(1) *The term ‘program’ means the Defense Ci-*  
18                 *vilian Acquisition Training Corps of the Department*  
19                 *of Defense.*

20                 “(2) *The term ‘member of the program’ means a*  
21                 *student at an institution of higher learning who is*  
22                 *enrolled in the program.*

23                 “(3) *The term ‘institution of higher education’*  
24                 *has the meaning given that term in section 101 of the*  
25                 *Higher Education Act of 1965 (20 U.S.C. 1001).”.*

1           (2) *IMPLEMENTATION TIMELINE.*—

2                   (A) *INITIAL IMPLEMENTATION.*—Not later  
3 than December 31, 2019, the Secretary of Defense  
4 shall submit to the congressional defense commit-  
5 tees a plan and schedule that implements the  
6 program at one institution of higher learning  
7 not later than August 1, 2020. The plan shall in-  
8 clude recommendations regarding any legislative  
9 changes required for effective implementation of  
10 the program.

11                   (B) *EXPANSION.*—Not later than December  
12 31, 2020, the Secretary of Defense shall submit  
13 to the congressional defense committees an ex-  
14 pansion plan and schedule to expand the pro-  
15 gram to five locations not later than by August  
16 1, 2021.

17                   (C) *FULL IMPLEMENTATION.*—Not later  
18 than December 31, 2021, the Secretary of Defense  
19 shall submit to the congressional defense commit-  
20 tees a full implementation plan and schedule to  
21 expand the program to at least 20 locations with  
22 not fewer than 400 members in the program not  
23 later than August 1, 2022.

24           (j) *CLARIFYING THE ROLES AND RESPONSIBILITIES*  
25 *OF THE UNDER SECRETARY OF DEFENSE FOR ACQUISITION*

1 *AND SUSTAINMENT AND THE UNDER SECRETARY OF DE-*  
2 *FENSE FOR RESEARCH AND ENGINEERING.—The laws of*  
3 *the United States are amended as follows:*

4           (1) *Section 129a(c)(3) of title 10, United States*  
5 *Code, is amended by striking “Under Secretary of De-*  
6 *fense for Acquisition, Technology, and Logistics” and*  
7 *inserting “Under Secretary of Defense for Acquisition*  
8 *and Sustainment”.*

9           (2) *Section 133a(b)(2) of title 10, United States*  
10 *Code, is amended by striking “, including the alloca-*  
11 *tion of resources for defense research and engineer-*  
12 *ing,”.*

13           (3) *Section 134(c) of title 10, United States*  
14 *Code, is amended by striking “Under Secretary of De-*  
15 *fense for Acquisition, Technology, and Logistics,” and*  
16 *inserting “Under Secretary of Defense for Acquisition*  
17 *and Sustainment, the Under Secretary of Defense for*  
18 *Research and Engineering,”.*

19           (4) *Section 139(b) of title 10, United States*  
20 *Code, is amended in the matter preceding paragraph*  
21 *(1) by striking “and the Under Secretary of Defense*  
22 *for Acquisition, Technology, and Logistics” and in-*  
23 *serting “, the Under Secretary of Defense for Acquisi-*  
24 *tion and Sustainment, and the Under Secretary of*  
25 *Defense for Research and Engineering”.*

1           (5) *Section 139(b)(2) of title 10, United States*  
2 *Code, is amended by striking “and the Under Sec-*  
3 *retary of Defense for Acquisition, Technology, and Lo-*  
4 *gistics” and inserting “, the Under Secretary of De-*  
5 *fense for Acquisition and Sustainment, and the Under*  
6 *Secretary of Defense for Research and Engineering,”.*

7           (6) *Section 139 of title 10, United States Code,*  
8 *is amended in subsections (c) through (h) by striking*  
9 *“Under Secretary of Defense for Acquisition, Tech-*  
10 *nology, and Logistics” each place it appears and in-*  
11 *serting “Under Secretary of Defense for Acquisition*  
12 *and Sustainment”.*

13           (7) *Section 139a(d)(6) of title 10, United States*  
14 *Code, is amended by striking “Under Secretary of De-*  
15 *fense for Acquisition, Technology, and Logistics” and*  
16 *inserting “Under Secretary of Defense for Acquisition*  
17 *and Sustainment, the Under Secretary of Defense for*  
18 *Research and Engineering,”.*

19           (8) *Section 171(a) of title 10, United States*  
20 *Code, is amended—*

21                 (A) *in paragraph (3), by striking “Under*  
22 *Secretary of Defense for Acquisition, Technology,*  
23 *and Logistics” and inserting “Under Secretary*  
24 *of Defense for Acquisition and Sustainment”;*

1                   (B) by inserting after paragraph (3) the fol-  
2                   lowing new paragraph:

3                   “(4) the Under Secretary of Defense for Research  
4                   and Engineering;”; and

5                   (C) by redesignating paragraphs (4)  
6                   through (13) as paragraphs (5) through (14), re-  
7                   spectively.

8                   (9) Section 171a of title 10, United States Code,  
9                   is amended—

10                   (A) in subsection (b)(2), by striking “Under  
11                   Secretary of Defense for Acquisition, Technology,  
12                   and Logistics” and inserting “Under Secretary  
13                   of Defense for Acquisition and Sustainment”;

14                   (B) by inserting after subsection (b)(2) the  
15                   following new paragraph:

16                   “(3) the Under Secretary of Defense for Research  
17                   and Engineering;”;

18                   (C) in subsection (b), by redesignating  
19                   paragraphs (3) through (7) as paragraphs (4)  
20                   through (8), respectively; and

21                   (D) in subsection (c), by striking “Under  
22                   Secretary of Defense for Acquisition, Technology,  
23                   and Logistics” and inserting “Under Secretary  
24                   of Defense for Acquisition and Sustainment”.

1           (10) Subsection (d)(1) of section 181 of title 10,  
2           *United States Code, is amended—*

3                   (A) in subparagraph (C), by striking  
4                   “Under Secretary of Defense for Acquisition,  
5                   Technology, and Logistics” and inserting “Under  
6                   Secretary of Defense for Acquisition and  
7                   Sustainment”;

8                   (B) by inserting after subparagraph (C) the  
9                   following new subparagraph:

10                   “(D) the Under Secretary of Defense for Research  
11                   and Engineering.”; and

12                   (C) by redesignating paragraphs (D)  
13                   through (G) as paragraphs (E) through (H), re-  
14                   spectively.

15           (11) Subsection (b)(2) of section 393 of title 10,  
16           *United States Code, is amended—*

17                   (A) in subparagraph (B), by striking  
18                   “Under Secretary of Defense for Acquisition,  
19                   Technology, and Logistics” and inserting “Under  
20                   Secretary of Defense for Acquisition and  
21                   Sustainment”;

22                   (B) by inserting after subparagraph (B) the  
23                   following new subparagraph:

24                   “(C) the Under Secretary of Defense for Re-  
25                   search and Engineering.”; and

1           (C) by redesignating subparagraphs (C)  
2           through (E) as subparagraphs (D) through (F).

3           (12) Section 1111 of the National Defense Au-  
4           thorization Act for Fiscal Year 2016 (Public law 114-  
5           92; 129 Stat. 1032; 10 U.S.C. 1701 note) is amended  
6           by striking “Under Secretary of Defense for Acquisi-  
7           tion, Technology, and Logistics” each place such term  
8           appears and inserting “Under Secretary of Defense  
9           for Acquisition and Sustainment”.

10          (13) Section 231(a) of the National Defense Au-  
11          thorization Act for Fiscal Year 2008 (Public law 110-  
12          181; 122 Stat. 45; 10 U.S.C. 1701 note) is amended  
13          by striking “Under Secretary of Defense for Acquisi-  
14          tion, Technology, and Logistics” and inserting  
15          “Under Secretary of Defense for Acquisition and  
16          Sustainment”.

17          (14) Section 1702 of title 10, United States  
18          Code, is amended—

19                 (A) in the heading, by striking “**Under**  
20                 **Secretary of Defense for Acquisition,**  
21                 **Technology, and Logistics**” and inserting  
22                 “**Under Secretary of Defense for Acqui-**  
23                 **sition and Sustainment**”;

24                 (B) in the section text, by striking “Under  
25                 Secretary of Defense for Acquisition, Technology,

1           *and Logistics” and inserting “Under Secretary*  
2           *of Defense for Acquisition and Sustainment”.*

3           (15) *Section 807(a) of the Bob Stump National*  
4           *Defense Authorization Act for Fiscal Year 2003 (Pub-*  
5           *lic Law 107–314; 116 Stat. 2608; 10 U.S.C. 1702*  
6           *note) is amended by striking “Under Secretary of De-*  
7           *fense for Acquisition, Technology, and Logistics” and*  
8           *inserting “Under Secretary of Defense for Acquisition*  
9           *and Sustainment”.*

10           (16) *Section 1705 of title 10, United States Code,*  
11           *is amended—*

12                   (A) *in subsection (c), by striking “Under*  
13                   *Secretary of Defense for Acquisition, Technology,*  
14                   *and Logistics” and inserting “Under Secretary*  
15                   *of Defense for Acquisition and Sustainment”;*

16                   (B) *in subsection (e)(3), by striking “Under*  
17                   *Secretary of Defense for Acquisition, Technology,*  
18                   *and Logistics” and inserting “Under Secretary*  
19                   *of Defense for Acquisition and Sustainment”;*  
20                   *and*

21                   (C) *in subsection (g)(2)(B), by striking*  
22                   *“Under Secretary of Defense for Acquisition,*  
23                   *Technology, and Logistics” and inserting “Under*  
24                   *Secretary of Defense for Acquisition and*  
25                   *Sustainment”.*

1           (17) *Section 803(c) of the National Defense Au-*  
2 *thorization Act for Fiscal Year 2013 (Public Law*  
3 *112–239; 126 Stat. 1825; 10 U.S.C. 1705 note) is*  
4 *amended by striking “Under Secretary of Defense for*  
5 *Acquisition, Technology, and Logistics” and inserting*  
6 *“Under Secretary of Defense for Acquisition and*  
7 *Sustainment”.*

8           (18) *Section 1722 of title 10, United States*  
9 *Code, is amended—*

10           (A) *in subsection (a), by striking “Under*  
11 *Secretary of Defense for Acquisition, Technology,*  
12 *and Logistics” and inserting “Under Secretary*  
13 *of Defense for Acquisition and Sustainment”;*  
14 *and*

15           (B) *in subsection (b)(2)(B), by striking*  
16 *“Under Secretary of Defense for Acquisition,*  
17 *Technology, and Logistics” and inserting “Under*  
18 *Secretary of Defense for Acquisition and*  
19 *Sustainment”.*

20           (19) *Section 1722a of title 10, United States*  
21 *Code, is amended—*

22           (A) *in subsection (a), by striking “Under*  
23 *Secretary of Defense for Acquisition, Technology,*  
24 *and Logistics” and inserting “Under Secretary*

1           *of Defense for Acquisition and Sustainment”;*  
2           *and*

3                   *(B) in subsection (e), by striking “Under*  
4           *Secretary of Defense for Acquisition, Technology,*  
5           *and Logistics” and inserting “Under Secretary*  
6           *of Defense for Acquisition and Sustainment”.*

7           *(20) Section 1722b(a) of title 10, United States*  
8           *Code, is amended by striking “Under Secretary of De-*  
9           *fense for Acquisition, Technology, and Logistics” and*  
10          *inserting “Under Secretary of Defense for Acquisition*  
11          *and Sustainment”.*

12           *(21) Section 1723 of title 10, United States*  
13          *Code, is amended—*

14                   *(A) in subsection (a)(3), by striking “Under*  
15           *Secretary of Defense for Acquisition, Technology,*  
16           *and Logistics” and inserting “Under Secretary*  
17           *of Defense for Acquisition and Sustainment”;*  
18           *and*

19                   *(B) in subsection (b), by striking “Under*  
20           *Secretary of Defense for Acquisition, Technology,*  
21           *and Logistics” and inserting “Under Secretary*  
22           *of Defense for Acquisition and Sustainment”.*

23           *(22) Section 1725(e)(2) of title 10, United States*  
24          *Code, is amended by striking “Under Secretary of De-*  
25          *fense for Acquisition, Technology, and Logistics” and*

1        *inserting “Under Secretary of Defense for Acquisition*  
2        *and Sustainment”.*

3            *(23) Section 1735(c)(1) of title 10, United States*  
4        *Code, is amended by striking “Under Secretary of De-*  
5        *fense for Acquisition, Technology, and Logistics” and*  
6        *inserting “Under Secretary of Defense for Acquisition*  
7        *and Sustainment”.*

8            *(24) Section 1737(c) of title 10, United States*  
9        *Code, is amended by striking “Under Secretary of De-*  
10       *fense for Acquisition, Technology, and Logistics” and*  
11       *inserting “Under Secretary of Defense for Acquisition*  
12       *and Sustainment”.*

13           *(25) Section 1741(b) of title 10, United States*  
14       *Code, is amended by striking “Under Secretary of De-*  
15       *fense for Acquisition, Technology, and Logistics” and*  
16       *inserting “Under Secretary of Defense for Acquisition*  
17       *and Sustainment”.*

18           *(26) Section 1746(a) of title 10, United States*  
19       *Code, is amended by striking “Under Secretary of De-*  
20       *fense for Acquisition, Technology, and Logistics” and*  
21       *inserting “Under Secretary of Defense for Acquisition*  
22       *and Sustainment”.*

23           *(27) Section 1748 of title 10, United States*  
24       *Code, is amended by striking “Under Secretary of De-*  
25       *fense for Acquisition, Technology, and Logistics” and*

1        *inserting “Under Secretary of Defense for Acquisition*  
2        *and Sustainment”.*

3            *(28) Section 2222 of title 10, United States*  
4        *Code, is amended—*

5            *(A) in subsection (c)(2), by striking “Under*  
6            *Secretary of Defense for Acquisition, Technology,*  
7            *and Logistics” and inserting “Under Secretary*  
8            *of Defense for Acquisition and Sustainment”;*  
9            *and*

10           *(B) in subsection (f)(2)(B)(i), by striking*  
11           *“Under Secretary of Defense for Acquisition,*  
12           *Technology, and Logistics” and inserting “Under*  
13           *Secretary of Defense for Acquisition and*  
14           *Sustainment”.*

15           *(29) Section 217(a) of the National Defense Au-*  
16           *thorization Act for Fiscal Year 2016 (Public Law*  
17           *114–92; 129 Stat. 770; 10 U.S.C. 2222 note) is*  
18           *amended by striking “Under Secretary of Defense for*  
19           *Acquisition, Technology, and Logistics” and inserting*  
20           *“Under Secretary of Defense for Acquisition and*  
21           *Sustainment”.*

22           *(30) Section 882(b) of the Ike Skelton National*  
23           *Defense Authorization Act for Fiscal Year 2011 (Pub-*  
24           *lic Law 111–383; 128 Stat. 4308; 10 U.S.C. 2222*  
25           *note) is amended by striking “Under Secretary of De-*

1 *fense for Acquisition, Technology, and Logistics” and*  
2 *inserting “Under Secretary of Defense for Acquisition*  
3 *and Sustainment”.*

4 (31) *Section 2272 of title 10, United States*  
5 *Code, is amended by striking “Assistant Secretary of*  
6 *Defense for Research and Engineering” and inserting*  
7 *“Under Secretary of Defense for Research and Engi-*  
8 *neering”.*

9 (32) *Section 2275(a) of title 10, United States*  
10 *Code, is amended by striking “Under Secretary of De-*  
11 *fense for Acquisition, Technology, and Logistics” and*  
12 *inserting “Under Secretary of Defense for Research*  
13 *and Engineering”.*

14 (33) *Section 2279(d) of title 10, United States*  
15 *Code, is amended by striking “Under Secretary of De-*  
16 *fense for Acquisition, Technology, and Logistics” and*  
17 *inserting “Under Secretary of Defense for Acquisition*  
18 *and Sustainment”.*

19 (34) *Section 2279b of title 10, United States*  
20 *Code, is amended—*

21 (A) *in subsection (b)—*

22 (i) *in paragraph (2), by striking*  
23 *“Under Secretary of Defense for Acquisi-*  
24 *tion, Technology, and Logistics” and insert-*

1           ing “Under Secretary of Defense for Acqui-  
2           sition and Sustainment”;

3           (ii) by redesignating paragraphs (3)  
4           through (10) as paragraphs (4) through  
5           (11), respectively; and

6           (iii) by inserting after paragraph (2)  
7           the following new paragraph:

8           “(3) the Under Secretary of Defense for Research  
9           and Engineering.”; and

10          (B) in subsection (c), by striking “Under  
11          Secretary of Defense for Acquisition, Technology,  
12          and Logistics” and inserting “Under Secretary  
13          of Defense for Acquisition and Sustainment”.

14          (35) Section 898(a)(2) of the National Defense  
15          Authorization Act for Fiscal Year 2017 (Public Law  
16          114–328; 130 Stat. 2000; 10 U.S.C. 2302 note) is  
17          amended by striking “Under Secretary of Defense for  
18          Acquisition, Technology, and Logistics” each place  
19          such term appears and inserting “Under Secretary of  
20          Defense for Acquisition and Sustainment”.

21          (36) Section 804 of the National Defense Author-  
22          ization Act for Fiscal Year 2016 (Public Law 114–  
23          92; 129 Stat. 726; 10 U.S.C. 2302 note) is amended  
24          by striking “Under Secretary of Defense for Acquisi-  
25          tion, Technology, and Logistics” each place such term

1        *appears and inserting “Under Secretary of Defense*  
2        *for Acquisition and Sustainment”.*

3                *(37) Section 852 of the Carl Levin and Howard*  
4        *P. “Buck” McKeon National Defense Authorization*  
5        *Act for Fiscal Year 2015 (Public Law 113–291; 130*  
6        *Stat. 3458; 10 U.S.C. 2302 note) is amended by strik-*  
7        *ing “Under Secretary of Defense for Acquisition,*  
8        *Technology, and Logistics” and inserting “Under Sec-*  
9        *retary of Defense for Acquisition and Sustainment”.*

10                *(38) Section 806 of the National Defense Author-*  
11        *ization Act for Fiscal Year 2012 (Public Law 112–*  
12        *81; 125 Stat. 1487; 10 U.S.C. 2302 note) is amended*  
13        *by striking “Under Secretary of Defense for Acquisi-*  
14        *tion, Technology, and Logistics” each place such term*  
15        *appears and inserting “Under Secretary of Defense*  
16        *for Acquisition and Sustainment”.*

17                *(39) Section 843 of the National Defense Author-*  
18        *ization Act for Fiscal Year 2012 (Public Law 112–*  
19        *81; 125 Stat. 1487; 10 U.S.C. 2302 note) is amended*  
20        *by striking “Under Secretary of Defense for Acquisi-*  
21        *tion, Technology, and Logistics” and inserting*  
22        *“Under Secretary of Defense for Acquisition and*  
23        *Sustainment”.*

24                *(40) Section 254(b) of the Duncan Hunter Na-*  
25        *tional Defense Authorization Act for Fiscal Year 2009*

1       *(Public Law 110–417; 122 Stat. 4402; 10 U.S.C.*  
2       *2302 note) is amended by striking “Under Secretary*  
3       *of Defense for Acquisition, Technology, and Logistics”*  
4       *and inserting “Under Secretary of Defense for Acqui-*  
5       *sition and Sustainment”.*

6               *(41) Section 802(d) of the Ronald W. Reagan*  
7       *National Defense Authorization Act for Fiscal Year*  
8       *2005 (Public Law 108–375; 118 Stat. 2004; 10*  
9       *U.S.C. 2302 note) is amended by striking “Under*  
10       *Secretary of Defense for Acquisition, Technology, and*  
11       *Logistics” each place such term appears and inserting*  
12       *“Under Secretary of Defense for Acquisition and*  
13       *Sustainment”.*

14               *(42) Section 244 of the Bob Stump National De-*  
15       *fense Authorization Act for Fiscal Year 2003 (Public*  
16       *Law 107–314; 116 Stat. 2498; 10 U.S.C. 2302 note)*  
17       *is amended by striking “Under Secretary of Defense*  
18       *for Acquisition, Technology, and Logistics” each place*  
19       *such term appears and inserting “Under Secretary of*  
20       *Defense for Acquisition and Sustainment”.*

21               *(43) Section 804(c) of the Bob Stump National*  
22       *Defense Authorization Act for Fiscal Year 2003 (Pub-*  
23       *lic Law 107–314; 116 Stat. 2605; 10 U.S.C. 2302*  
24       *note) is amended by striking “Under Secretary of De-*  
25       *fense for Acquisition, Technology, and Logistics” each*

1        *place such term appears and inserting “Under Sec-*  
2        *retary of Defense for Acquisition and Sustainment”.*

3            *(44) Section 2304 of title 10, United States*  
4        *Code, is amended by striking “Under Secretary of De-*  
5        *fense for Acquisition, Technology, and Logistics” each*  
6        *place such term appears and inserting “Under Sec-*  
7        *retary of Defense for Acquisition and Sustainment”.*

8            *(45) Section 895 of the National Defense Author-*  
9        *ization Act for Fiscal Year 2016 (Public Law 114–*  
10       *92; 129 Stat. 954; 10 U.S.C. 2304 note) is amended*  
11       *by striking “Under Secretary of Defense for Acquisi-*  
12       *tion, Technology, and Logistics” each place such term*  
13       *appears and inserting “Under Secretary of Defense*  
14       *for Acquisition and Sustainment”.*

15           *(46) Section 806(b) of the Ike Skelton National*  
16       *Defense Authorization Act for Fiscal Year 2011 (Pub-*  
17       *lic Law 111–383; 124 Stat. 4260; 10 U.S.C. 2304*  
18       *note) is amended by striking “Under Secretary of De-*  
19       *fense for Acquisition, Technology, and Logistics” each*  
20       *place such term appears and inserting “Under Sec-*  
21       *retary of Defense for Acquisition and Sustainment”.*

22           *(47) Section 821(a) of the National Defense Au-*  
23       *thorization Act for Fiscal Year 2008 (Public Law*  
24       *110–181; 122 Stat. 226; 10 U.S.C. 2304 note) is*  
25       *amended by striking “Under Secretary of Defense for*

1     *Acquisition, Technology, and Logistics” and inserting*  
2     *“Under Secretary of Defense for Acquisition and*  
3     *Sustainment”.*

4             *(48) Section 801(b)(2)(B) of the National De-*  
5     *fense Authorization Act for Fiscal Year 2008 (Public*  
6     *Law 110–181; 122 Stat. 204; 10 U.S.C. 2304 note) is*  
7     *amended by striking “Under Secretary of Defense for*  
8     *Acquisition, Technology, and Logistics” and inserting*  
9     *“Under Secretary of Defense for Acquisition and*  
10     *Sustainment”.*

11             *(49) Section 817(e) of the John Warner National*  
12     *Defense Authorization Act for Fiscal Year 2007 (Pub-*  
13     *lic Law 109–364; 120 Stat. 2326; 10 U.S.C. 2304*  
14     *note) is amended by striking “Under Secretary of De-*  
15     *fense for Acquisition, Technology, and Logistics” and*  
16     *inserting “Under Secretary of Defense for Acquisition*  
17     *and Sustainment”.*

18             *(50) Section 811(e)(1) of the National Defense*  
19     *Authorization Act for Fiscal Year 2006 (Public Law*  
20     *109–163; 120 Stat. 2326; 10 U.S.C. 2304 note) is*  
21     *amended by striking “Under Secretary of Defense for*  
22     *Acquisition, Technology, and Logistics” and inserting*  
23     *“Under Secretary of Defense for Acquisition and*  
24     *Sustainment”.*

1           (51) *Section 875 of the National Defense Author-*  
2           *ization Act for Fiscal Year 2017 (Public Law 114-*  
3           *328; 130 Stat. 2310; 10 U.S.C. 2305 note) is amend-*  
4           *ed—*

5                     (A) *in subsection (b)(2), by striking “Under*  
6                     *Secretary of Defense for Acquisition, Technology,*  
7                     *and Logistics” and inserting “Under Secretary*  
8                     *of Defense for Acquisition and Sustainment”;*

9                     (B) *in subsection (c), by striking “Under*  
10                    *Secretary of Defense for Acquisition, Technology,*  
11                    *and Logistics” and inserting “Under Secretary*  
12                    *of Defense for Acquisition and Sustainment”;*

13                    (C) *in subsection (d), by striking “The*  
14                    *Under Secretary for Acquisition, Technology,*  
15                    *and Logistics” and inserting “The Under Sec-*  
16                    *retary of Defense for Research and Engineering”;*  
17                    *and*

18                    (D) *in subsection (e) through (f), by strik-*  
19                    *ing “Under Secretary of Defense for Acquisition,*  
20                    *Technology, and Logistics” and inserting “Under*  
21                    *Secretary of Defense for Acquisition and*  
22                    *Sustainment”.*

23           (52) *Section 888(b)(1) of the National Defense*  
24           *Authorization Act for Fiscal Year 2017 (Public Law*  
25           *114–328; 130 Stat. 2322; 10 U.S.C. 2305 note) is*

1        *amended by striking “Under Secretary of Defense for*  
2        *Acquisition, Technology, and Logistics” and inserting*  
3        *“Under Secretary of Defense for Acquisition and*  
4        *Sustainment”.*

5                *(53) Section 829(b)(1) of the National Defense*  
6        *Authorization Act for Fiscal Year 2017 (Public Law*  
7        *114–328; 130 Stat. 2281; 10 U.S.C. 2306 note) is*  
8        *amended by striking “Under Secretary of Defense for*  
9        *Acquisition, Technology, and Logistics” and inserting*  
10        *“Under Secretary of Defense for Acquisition and*  
11        *Sustainment”.*

12                *(54) Section 2306b(i)(7) of title 10, United*  
13        *States Code, is amended by striking “Under Secretary*  
14        *of Defense for Acquisition, Technology, and Logistics”*  
15        *and inserting “Under Secretary of Defense for Acqui-*  
16        *sition and Sustainment”.*

17                *(55) Section 2311(c) of title 10, United States*  
18        *Code, is amended—*

19                        *(A) in paragraph (1), by striking “Under*  
20        *Secretary of Defense for Acquisition, Technology,*  
21        *and Logistics” and inserting “Under Secretary*  
22        *of Defense for Acquisition and Sustainment”;*  
23        *and*

24                        *(B) in paragraph (2)(B), by striking*  
25        *“Under Secretary of Defense for Acquisition,*

1           *Technology, and Logistics” and inserting “Under*  
2           *Secretary of Defense for Acquisition and*  
3           *Sustainment”.*

4           (56) *Section 824(a) of the Ike Skelton National*  
5           *Defense Authorization Act for Fiscal Year 2011 (Pub-*  
6           *lic Law 111–383; 124 Stat. 4269; 10 U.S.C. 2320*  
7           *note) is amended by striking “Under Secretary of De-*  
8           *fense for Acquisition, Technology, and Logistics” and*  
9           *inserting “Under Secretary of Defense for Acquisition*  
10           *and Sustainment”.*

11           (57) *Section 2326(g) of title 10, United States*  
12           *Code, is amended by striking “Under Secretary of De-*  
13           *fense for Acquisition, Technology, and Logistics” and*  
14           *inserting “Under Secretary of Defense for Acquisition*  
15           *and Sustainment”.*

16           (58) *Section 2330 of title 10, United States*  
17           *Code, is amended—*

18                   (A) *in subsection (a)(1), by striking “Under*  
19                   *Secretary of Defense for Acquisition, Technology,*  
20                   *and Logistics” and inserting “Under Secretary*  
21                   *of Defense for Acquisition and Sustainment”;*

22                   (B) *in subsection (a)(3), by striking “Under*  
23                   *Secretary of Defense for Acquisition, Technology,*  
24                   *and Logistics” and inserting “Under Secretary*  
25                   *of Defense for Acquisition and Sustainment”;*

1           (C) in subsection (b)(2), by striking “Under  
2           Secretary of Defense for Acquisition, Technology,  
3           and Logistics” and inserting “Under Secretary  
4           of Defense for Acquisition and Sustainment”;  
5           and

6           (D) in subsection (b)(3)(A), by striking  
7           “Under Secretary of Defense for Acquisition,  
8           Technology, and Logistics” and inserting “Under  
9           Secretary of Defense for Acquisition and  
10          Sustainment”.

11          (59) Section 882 of the National Defense Author-  
12          ization Act for Fiscal Year 2016 (Public Law 114-  
13          92; 129 Stat. 942; 10 U.S.C. 2330 note) is amended  
14          in the matter preceding paragraph (1) by striking  
15          “Under Secretary of Defense for Acquisition, Tech-  
16          nology, and Logistics” and inserting “Under Sec-  
17          retary of Defense for Acquisition and Sustainment”.

18          (60) Section 801(b)(2)(B) of the National De-  
19          fense Authorization Act for Fiscal Year 2002 (Public  
20          Law 107-107; 115 Stat. 1176; 10 U.S.C. 2330 note)  
21          is amended by striking “Under Secretary of Defense  
22          for Acquisition, Technology, and Logistics” and in-  
23          serting “Under Secretary of Defense for Acquisition  
24          and Sustainment”.

1           (61) *Section 2334 of title 10, United States*  
2           *Code, is amended by striking “Under Secretary of De-*  
3           *fense for Acquisition, Technology, and Logistics” each*  
4           *place such term appears and inserting “Under Sec-*  
5           *retary of Defense for Acquisition and Sustainment”.*

6           (62) *Section 2350a(b)(2) of title 10, United*  
7           *States Code, is amended by striking “Under Secretary*  
8           *of Defense for Acquisition, Technology, and Logistics,*  
9           *and the Assistant Secretary of Defense for Research*  
10          *and Engineering” and inserting “Under Secretary of*  
11          *Defense for Acquisition and Sustainment, and the*  
12          *Under Secretary of Defense for Research and Engi-*  
13          *neering”.*

14          (63) *Section 2359(b)(1) of title 10, United States*  
15          *Code, is amended by striking “Under Secretary of De-*  
16          *fense for Acquisition, Technology, and Logistics” and*  
17          *inserting “Under Secretary of Defense for Research*  
18          *and Engineering”.*

19          (64) *Section 2359b of title 10, United States*  
20          *Code, is amended—*

21                 (A) *in subsection (a)(1), by striking “Under*  
22                 *Secretary of Defense for Acquisition, Technology,*  
23                 *and Logistics” and inserting “Under Secretary*  
24                 *of Defense for Research and Engineering”; and*

1           (B) in subsection (l)(1), by striking “Under  
2           Secretary of Defense for Acquisition, Technology,  
3           and Logistics” and inserting “Under Secretary  
4           of Defense for Research and Engineering”.

5           (65) Section 2365 of title 10, United States  
6           Code, is amended—

7           (A) by striking “Assistant Secretary” each  
8           place it appears and inserting “Under Sec-  
9           retary”; and

10          (B) in subsection (d), by striking paragraph  
11          (3).

12          (66) Section 2375 of title 10, United States  
13          Code, is amended by striking “Under Secretary of De-  
14          fense for Acquisition, Technology, and Logistics” each  
15          place such term appears and inserting “Under Sec-  
16          retary of Defense for Acquisition and Sustainment”.

17          (67) Section 874(b)(1) of the National Defense  
18          Authorization Act for Fiscal Year 2017 (Public Law  
19          114–328; 130 Stat. 2310; 10 U.S.C. 2375 note) is  
20          amended by striking “Under Secretary of Defense for  
21          Acquisition, Technology, and Logistics” and inserting  
22          “Under Secretary of Defense for Acquisition and  
23          Sustainment”.

24          (68) Section 876 of the National Defense Author-  
25          ization Act for Fiscal Year 2017 (Public Law 114–

1       328; 130 Stat. 2311; 10 U.S.C. 2377 note) is amended  
2       by striking “Under Secretary of Defense for Acquisi-  
3       tion, Technology, and Logistics” and inserting  
4       “Under Secretary of Defense for Acquisition and  
5       Sustainment”.

6               (69) Section 855 of the National Defense Author-  
7       ization Act for Fiscal Year 2016 (Public Law 114-  
8       92; 129 Stat. 919; 10 U.S.C. 2377 note) is amended  
9       by striking “Under Secretary of Defense for Acquisi-  
10      tion, Technology, and Logistics” each place such term  
11      appears and inserting “Under Secretary of Defense  
12      for Acquisition and Sustainment”.

13              (70) Section 856(a)(2)(B) of the National De-  
14      fense Authorization Act for Fiscal Year 2016 (Public  
15      Law 114-92; 129 Stat. 920; 10 U.S.C. 2377 note) is  
16      amended by striking “Under Secretary of Defense for  
17      Acquisition, Technology, and Logistics” and inserting  
18      “Under Secretary of Defense for Acquisition and  
19      Sustainment”.

20              (71) Section 2399(b)(3) of title 10, United States  
21      Code, is amended by striking “Under Secretary of De-  
22      fense for Acquisition, Technology, and Logistics,” and  
23      inserting “Under Secretary of Defense for Acquisition  
24      and Sustainment, the Under Secretary of Defense for  
25      Research and Engineering,”.

1           (72) Section 2419(a)(1) of title 10, United States  
2           Code, is amended by striking “Under Secretary of De-  
3           fense for Acquisition, Technology, and Logistics” and  
4           inserting “Under Secretary of Defense for Acquisition  
5           and Sustainment”.

6           (73) Section 825(c)(2) of the National Defense  
7           Authorization Act for Fiscal Year 2016 (Public Law  
8           114–92; 129 Stat. 908; 10 U.S.C. 2430 note) is  
9           amended by striking “Under Secretary of Defense for  
10          Acquisition, Technology, and Logistics” and inserting  
11          “Under Secretary of Defense for Acquisition and  
12          Sustainment”.

13          (74) Section 826(e) of the National Defense Au-  
14          thorization Act for Fiscal Year 2016 (Public Law  
15          114–92; 129 Stat. 908; 10 U.S.C. 2430 note) is  
16          amended by striking “Under Secretary of Defense for  
17          Acquisition, Technology, and Logistics” and inserting  
18          “Under Secretary of Defense for Acquisition and  
19          Sustainment”.

20          (75) Section 827(e) of the National Defense Au-  
21          thorization Act for Fiscal Year 2016 (Public Law  
22          114–92; 129 Stat. 909; 10 U.S.C. 2430 note) is  
23          amended by striking “Under Secretary of Defense for  
24          Acquisition, Technology, and Logistics” and inserting

1       *“Under Secretary of Defense for Acquisition and*  
2       *Sustainment”.*

3               (76) *Section 811(b) of the National Defense Au-*  
4       *thorization Act for Fiscal Year 2013 (Public Law*  
5       *112–239; 126 Stat. 1828; 10 U.S.C. 2430 note) is*  
6       *amended—*

7               (A) *in paragraph (1), by striking “if the*  
8       *Under Secretary of Defense for Acquisition,*  
9       *Technology, and Logistics” and inserting “if the*  
10       *service acquisition executive, in the case of a*  
11       *major defense acquisition program of the mili-*  
12       *tary department, or the Under Secretary of De-*  
13       *fense for Acquisition and Sustainment, in the*  
14       *case of a Defense-wide or Defense Agency major*  
15       *defense acquisition program,”; and*

16               (B) *in paragraph (2), by inserting “the*  
17       *service acquisition executive or” before “the*  
18       *Under Secretary” each place such term appears.*

19               (77) *Section 812(a) of the National Defense Au-*  
20       *thorization Act for Fiscal Year 2013 (Public Law*  
21       *112–239; 126 Stat. 1829; 10 U.S.C. 2430 note) is*  
22       *amended by striking “Under Secretary of Defense for*  
23       *Acquisition, Technology, and Logistics” and inserting*  
24       *“Under Secretary of Defense for Acquisition and*  
25       *Sustainment”.*

1           (78) *Section 814 of the Duncan Hunter National*  
2           *Defense Authorization Act for Fiscal Year 2009 (Pub-*  
3           *lic Law 115–91; 131 Stat. 1467; 10 U.S.C. 2430 note)*  
4           *is amended—*

5                     *(A) in subsection (b), by striking paragraph*  
6                     *(2) and inserting the following new paragraphs:*

7                     “(2) *REQUIRED MEMBERS.—Each Configuration*  
8                     *Steering Board under this section shall include a rep-*  
9                     *resentative of the following:*

10                    “(A) *The Chief of Staff of the Armed Force*  
11                    *concerned.*

12                    “(B) *The Comptroller of the military de-*  
13                    *partment concerned.*

14                    “(C) *The military deputy to the service ac-*  
15                    *quisition executive concerned.*

16                    “(D) *The program executive officer for the*  
17                    *major defense acquisition program concerned.*

18                    “(3) *ADDITIONAL MEMBERS.—In addition to the*  
19                    *members required in paragraph (2), when the mile-*  
20                    *stone decision authority for a major defense acquisi-*  
21                    *tion program is the Under Secretary of Defense for*  
22                    *Acquisition and Sustainment, each Configuration*  
23                    *Steering Board under this section shall also include*  
24                    *a representative of the following:*

1           “(A) *The Office of the Under Secretary of*  
2           *Defense for Acquisition and Sustainment.*

3           “(B) *Other armed forces, as appropriate.*

4           “(C) *The Joint Staff.*

5           “(D) *Other senior representatives of the Of-*  
6           *fice of the Secretary of Defense and the military*  
7           *department concerned, as appropriate.”; and*

8           *(B) in subsection (c)(5)(B), by striking*  
9           *“Under Secretary of Defense for Acquisition,*  
10           *Technology, and Logistics” and inserting “serv-*  
11           *ice acquisition executive”.*

12           *(79) Section 801(a)(1) of the John Warner Na-*  
13           *tional Defense Authorization Act for Fiscal Year 2007*  
14           *(Public Law 109–364; 120 Stat. 2312; 10 U.S.C.*  
15           *2430 note) is amended by striking “Under Secretary*  
16           *of Defense for Acquisition, Technology, and Logistics”*  
17           *and inserting “Under Secretary of Defense for Acqui-*  
18           *sition and Sustainment”.*

19           *(80) Section 924 of the National Defense Author-*  
20           *ization Act for Fiscal Year 2004 (Public Law 108–*  
21           *136; 117 Stat. 1576; 10 U.S.C. 2430 note) is amended*  
22           *by striking “Under Secretary of Defense for Acquisi-*  
23           *tion, Technology, and Logistics” each place it appears*  
24           *and inserting “Under Secretary of Defense for Acqui-*  
25           *sition and Sustainment”.*

1           (81) *Section 1675(a) of the National Defense Au-*  
2 *thorization Act for Fiscal Year 2016 (Public Law*  
3 *114–92; 192 Stat. 1131; 10 U.S.C. 2431 note) is*  
4 *amended by striking “Under Secretary of Defense for*  
5 *Acquisition, Technology, and Logistics” and inserting*  
6 *“the Under Secretary of Defense for Research and En-*  
7 *gineering”.*

8           (82) *Section 2431a(b) of title 10, United States*  
9 *Code, is amended by striking “Under Secretary of De-*  
10 *fense for Acquisition, Technology, and Logistics” and*  
11 *inserting “Under Secretary of Defense for Acquisition*  
12 *and Sustainment”.*

13           (83) *Section 2435 of title 10, United States*  
14 *Code, is amended by striking—*

15           (A) *in subsection (b), by striking “Under*  
16 *Secretary of Defense for Acquisition, Technology,*  
17 *and Logistics” and inserting “service acquisition*  
18 *executive, in the case of a major defense acquisi-*  
19 *tion program of a military department, or the*  
20 *Under Secretary of Defense for Acquisition and*  
21 *Sustainment, in the case of a Defense-wide or*  
22 *Defense Agency major defense acquisition pro-*  
23 *gram”;* and

24           (B) *in subsection (e)(2), by striking “Under*  
25 *Secretary of Defense for Acquisition, Technology,*

1           *and Logistics” and inserting “Under Secretary*  
2           *of Defense for Acquisition and Sustainment”.*

3           (84) Section 2438(b) of title 10, United States  
4           Code, is amended—

5                   (A) in paragraph (1), by striking “Under  
6           Secretary of Defense for Acquisition, Technology  
7           and Logistics” and inserting “Under Secretary  
8           of Defense for Acquisition and Sustainment”;  
9           and

10                   (B) in paragraph (2), by striking “Under  
11           Secretary of Defense for Acquisition, Technology  
12           and Logistics” and inserting “Under Secretary  
13           of Defense for Acquisition and Sustainment”.

14           (85) Section 2448b(a) of title 10, United States  
15           Code, is amended in the matter preceding paragraph  
16           (1) by inserting “by an independent organization se-  
17           lected by the service acquisition executive” after “con-  
18           ducted”.

19           (86) Section 2503(b) of title 10, United States  
20           Code, is amended by striking “Under Secretary of De-  
21           fense for Acquisition, Technology, and Logistics” and  
22           inserting “Under Secretary of Defense for Acquisition  
23           and Sustainment”.

24           (87) Section 2508(b) of title 10, United States  
25           Code, is amended by striking “Under Secretary of De-

1 *fense for Acquisition, Technology, and Logistics” and*  
2 *inserting “Under Secretary of Defense for Acquisition*  
3 *and Sustainment”.*

4 (88) *Section 2521 of title 10, United States*  
5 *Code, is amended—*

6 (A) *in subsection (a), by striking “The*  
7 *Under Secretary of Defense for Acquisition,*  
8 *Technology, and Logistics” and inserting “The*  
9 *Under Secretary of Defense for Research and En-*  
10 *gineering”;*

11 (B) *in subsection (e)(4)(D), by striking*  
12 *“Under Secretary of Defense for Acquisition,*  
13 *Technology, and Logistics” and inserting “Under*  
14 *Secretary of Defense for Research and Engineer-*  
15 *ing”;* and

16 (C) *in subsection (e)(5), by striking “Under*  
17 *Secretary of Defense for Acquisition, Technology,*  
18 *and Logistics” and inserting “Under Secretary*  
19 *of Defense for Research and Engineering”.*

20 (89) *Section 2533b(k)(2)(A) of title 10, United*  
21 *States Code, is amended by striking “Under Secretary*  
22 *of Defense for Acquisition, Technology, and Logistics”*  
23 *and inserting “Under Secretary of Defense for Acqui-*  
24 *sition and Sustainment”.*

1           (90) Section 2546 of title 10, United States  
2 Code, is amended—

3           (A) in the heading of subsection (a), by  
4 striking “UNDER SECRETARY OF DEFENSE FOR  
5 ACQUISITION, TECHNOLOGY, AND LOGISTICS”  
6 and inserting “UNDER SECRETARY OF DEFENSE  
7 FOR ACQUISITION AND SUSTAINMENT”;

8           (B) in subsection (a), by striking “Under  
9 Secretary of Defense for Acquisition, Technology,  
10 and Logistics” and inserting “Under Secretary  
11 of Defense for Acquisition and Sustainment”;  
12 and

13           (C) in subsection (b), by striking “Under  
14 Secretary of Defense for Acquisition, Technology,  
15 and Logistics” and inserting “Under Secretary  
16 of Defense for Acquisition and Sustainment”.

17           (91) Section 2548 of title 10, United States  
18 Code, is amended—

19           (A) in subsection (a), by striking “Under  
20 Secretary of Defense for Acquisition, Technology,  
21 and Logistics” and inserting “Under Secretary  
22 of Defense for Acquisition and Sustainment”;  
23 and

24           (B) in subsection (c)(8), by striking “Under  
25 Secretary of Defense for Acquisition, Technology,

1           *and Logistics” and inserting “Under Secretary*  
2           *of Defense for Acquisition and Sustainment”.*

3           *(92) Section 2902(b) of title 10, United States*  
4           *Code, is amended—*

5                     *(A) in paragraph (1), by striking “Office of*  
6                     *the Assistant Secretary of Defense for Research*  
7                     *and Engineering” and inserting “Office of the*  
8                     *Secretary of Defense for Research and Engineer-*  
9                     *ing”;* and

10                    *(B) in paragraph (3), by striking “Office of*  
11                    *the Under Secretary of Defense for Acquisition,*  
12                    *Technology, and Logistics” and inserting “Office*  
13                    *of the Under Secretary of Defense for Acquisition*  
14                    *and Sustainment”.*

15           *(93) Section 2824(d) of the National Defense Au-*  
16           *thorization Act for Fiscal Year 2013 (Public law 112–*  
17           *239; 126 Stat. 2154; 10 U.S.C. 2911 note) is amended*  
18           *by striking “Under Secretary of Defense for Acquisi-*  
19           *tion, Technology, and Logistics and the Assistant Sec-*  
20           *retary of Defense for Energy, Installations, and Envi-*  
21           *ronment” and inserting “Under Secretary of Defense*  
22           *for Acquisition and Sustainment”.*

23           *(94) Section 315(d) of the National Defense Au-*  
24           *thorization Act for Fiscal Year 2012 (Public law 112–*  
25           *81; 125 Stat. 1357; 10 U.S.C. 2911 note) is amended*

1 *by striking “Under Secretary of Defense for Acquisi-*  
2 *tion, Technology, and Logistics” and inserting*  
3 *“Under Secretary of Defense for Acquisition and*  
4 *Sustainment”.*

5 (95) *Section 2926(e)(5)(D) of title 10, United*  
6 *States Code, is amended by striking “Under Secretary*  
7 *of Defense for Acquisition, Technology, and Logistics”*  
8 *and inserting “Under Secretary for Defense for Ac-*  
9 *quisition and Sustainment”.*

10 (96) *Section 836(a)(2) of the National Defense*  
11 *Authorization Act for Fiscal Year 2012 (Public Law*  
12 *112–81; 125 Stat. 1508; 22 U.S.C. 2767 note) is*  
13 *amended by striking “the Under Secretary of Defense*  
14 *for Acquisition, Technology, and Logistics, the Assist-*  
15 *ant Secretary of Defense for Research,” and inserting*  
16 *“the Under Secretary of Defense for Acquisition and*  
17 *Sustainment, the Under Secretary of Defense for Re-*  
18 *search and Engineering,”.*

19 (97) *Section 7103(d)(7)(M)(v) of title 22, United*  
20 *States Code, is amended by striking “Under Secretary*  
21 *of Defense for Acquisition, Technology, and Logistics”*  
22 *and inserting “Under Secretary of Defense for Acqui-*  
23 *sition and Sustainment”.*

24 (98) *Section 1126(a)(3) of title 31, United States*  
25 *Code, is amended by striking “Under Secretary of De-*

1 *fense for Acquisition, Technology, and Logistics” and*  
2 *inserting “Under Secretary of Defense for Acquisition*  
3 *and Sustainment”.*

4 (99) *Section 11319(d)(4) of title 40, United*  
5 *States Code, is amended by striking “Under Secretary*  
6 *of Defense for Acquisition, Technology, and Logistics”*  
7 *and inserting “Under Secretary of Defense for Acqui-*  
8 *sition and Sustainment”.*

9 (100) *Section 1302(b)(2)(A)(i) of title 41, United*  
10 *States Code, is amended by striking “Under Secretary*  
11 *of Defense for Acquisition, Technology, and Logistics”*  
12 *and inserting “Under Secretary of Defense for Acqui-*  
13 *sition and Sustainment”.*

14 (101) *Section 809 of the National Defense Au-*  
15 *thorization Act for Fiscal Years 1992 and 1993 (Pub-*  
16 *lic Law 102–190; 105 Stat. 1423; 41 U.S.C. 1302*  
17 *note) is amended by striking “Under Secretary of De-*  
18 *fense for Acquisition, Technology, and Logistics” and*  
19 *inserting “Under Secretary of Defense for Acquisition*  
20 *and Sustainment”.*

21 (102) *Section 1311(b)(3) of title 41, United*  
22 *States Code, is amended by striking “Under Secretary*  
23 *of Defense for Acquisition, Technology, and Logistics”*  
24 *and inserting “Under Secretary of Defense for Acqui-*  
25 *sition and Sustainment”.*

1           (103) Section 98f(a)(3) of title 50, United States  
2 Code, is amended by striking “Under Secretary of De-  
3 fense for Acquisition, Technology, and Logistics” and  
4 inserting “Under Secretary of Defense for Acquisition  
5 and Sustainment”.

6           (104) Section 1521 of title 50, United States  
7 Code, is amended—

8                   (A) in subsection (f)(1), by striking “Under  
9 Secretary of Defense for Acquisition, Technology,  
10 and Logistics” and inserting “Under Secretary  
11 of Defense for Acquisition and Sustainment”;  
12 and

13                   (B) in subsection (g)(2), by striking “Under  
14 Secretary of Defense for Acquisition, Technology,  
15 and Logistics” and inserting “Under Secretary  
16 of Defense for Acquisition and Sustainment.”.

17           (k) *REQUIREMENTS FOR THE NATIONAL SECURITY*  
18 *STRATEGY FOR NATIONAL TECHNOLOGY AND INDUSTRIAL*  
19 *BASE.—*

20                   (1) *NATIONAL SECURITY STRATEGY FOR NA-*  
21 *TIONAL TECHNOLOGY AND INDUSTRIAL BASE.—Sec-*  
22 *tion 2501(a) of title 10, United States Code, is*  
23 *amended by inserting after the first sentence the fol-*  
24 *lowing new sentence: “The Secretary shall submit*  
25 *such strategy to Congress not later than 180 days*

1 *after the date of submission of the national security*  
2 *strategy report required under section 108 of the Na-*  
3 *tional Security Act of 1947 (50 U.S.C. 3043).”.*

4 (2) *ANNUAL REPORT TO CONGRESS.—Section*  
5 *2504(3) of title 10, United States Code, is amended—*

6 (A) *in the matter preceding subparagraph*  
7 *(A), by inserting “executive order or” after “pur-*  
8 *suant to”;*

9 (B) *by amending subparagraph (A) to read*  
10 *as follows:*

11 “(A) *prioritized list of gaps or*  
12 *vulnerabilities in the national technology and*  
13 *industrial base, including—*

14 “(i) *a description of mitigation strate-*  
15 *gies necessary to address such gaps or*  
16 *vulnerabilities;*

17 “(ii) *the identification of the indi-*  
18 *vidual responsible for addressing such gaps*  
19 *or vulnerabilities; and*

20 “(iii) *a proposed timeline for action to*  
21 *address gaps or vulnerabilities.”.*

22 (l) *ESTABLISHMENT OF CENTER FOR ACQUISITION IN-*  
23 *NOVATION.—*

24 (1) *ESTABLISHMENT OF CENTER FOR ACQUI-*  
25 *SITION INNOVATION.—*

1                   (A) *IN GENERAL.*—Chapter 97 of title 10,  
2                   *United States Code, is amended by inserting*  
3                   *after section 1746 the following new section:*

4   **“§ 1746a. Center for Acquisition Innovation**

5                   “(a) *ESTABLISHMENT.*—*The Secretary of Defense, act-*  
6                   *ing through the Under Secretary of Defense for Acquisition*  
7                   *and Sustainment, shall establish and maintain a Center*  
8                   *for Acquisition Innovation (hereinafter referred to as the*  
9                   *‘Center’) at the Naval Postgraduate School. The Center shall*  
10                  *operate as an academic entity specializing in innovation*  
11                  *relating to the defense acquisition system.*

12                  “(b) *MISSION.*—(1) *The mission of the Center is to*  
13                  *provide to policymakers in the Department of Defense, Con-*  
14                  *gress, and throughout the Government, academic analyses*  
15                  *and policy alternatives for innovation in the defense acqui-*  
16                  *sition system. The Center shall accomplish that mission by*  
17                  *a variety of means intended to widely disseminate the re-*  
18                  *search findings of the Center.*

19                  “(2) *In carrying out the mission under paragraph (1),*  
20                  *the Center shall, on an ongoing basis, review the statutes*  
21                  *and regulations applicable to the defense acquisition sys-*  
22                  *tem. The objective of such review is to provide policy alter-*  
23                  *natives for streamlining and improving the efficiency and*  
24                  *effectiveness of the defense acquisition process in order to*

1 *ensure a defense technology advantage for the United States*  
2 *over potential adversaries.*

3       “(c) *IMPLEMENTATION REVIEW OF SECTION 809*  
4 *PANEL RECOMMENDATIONS AND CENTER POLICY ALTER-*  
5 *NATIVES.—(1) The Center shall, on an ongoing basis, review*  
6 *implementation of the recommendations of the Section 809*  
7 *Panel and policy alternatives provided by the Center. As*  
8 *part of such review, the Center shall—*

9               “(A) *for recommendations or policy alternatives*  
10 *for the enactment of legislation, identify whether (or*  
11 *to what extent) the recommendations or policy alter-*  
12 *natives have been adopted by being enacted into law*  
13 *by Congress;*

14               “(B) *for recommendations or policy alternatives*  
15 *for the issuance of regulations, identify whether (or to*  
16 *what extent) the recommendations or policy alter-*  
17 *natives have been adopted through issuance of new*  
18 *agency or Government-wide regulations; and*

19               “(C) *for recommendations or policy alternatives*  
20 *for revisions to policies and procedures in the execu-*  
21 *tive branch, identify whether (or to what extent) the*  
22 *recommendations or policy alternatives have been*  
23 *adopted through issuance of an appropriate imple-*  
24 *menting directive or other form of guidance.*

1           “(2) *In this subsection, the term ‘Section 809 Panel’*  
2 *means the panel established by the Secretary of Defense pur-*  
3 *suant to section 809 of the National Defense Authorization*  
4 *Act for Fiscal Year 2016 (Public Law 114–92), as amended*  
5 *by section 863(d) of the National Defense Authorization Act*  
6 *for Fiscal Year 2017 (Public Law 114–328) and sections*  
7 *803(c) and 883 of the National Defense Authorization Act*  
8 *for Fiscal Year 2018 (Public Law 115–91).*

9           “(d) *FUNDING.—There shall be available for the Center*  
10 *for any fiscal year from the Defense Acquisition Workforce*  
11 *and Development Fund not less than the amount of*  
12 *\$3,000,000 (in fiscal year 2019 constant dollars), in addi-*  
13 *tion to any other amount available for that fiscal year for*  
14 *the Naval Postgraduate School.*

15           “(e) *ANNUAL REPORT.—(1) Not later than September*  
16 *30 each year, the Center shall submit to the Secretary of*  
17 *Defense, who shall forward to the Committees on Armed*  
18 *Services of the Senate and House of Representatives, a re-*  
19 *port describing the activities of the Center during the pre-*  
20 *vious year and providing the findings, analysis, and policy*  
21 *alternatives of the Center relating to the defense acquisition*  
22 *system.*

23           “(2) *Each such report shall be submitted in accordance*  
24 *with paragraph (1) without further review within the exec-*  
25 *utive branch.*

1       “(3) *Each report under paragraph (1) shall include*  
2 *the following:*

3               “(A) *Results of academic research and analysis.*

4               “(B) *Results of the implementation reviews con-*  
5 *ducted pursuant to subsection (d).*

6               “(C) *Policy alternatives for such legislative and*  
7 *executive branch action as the Center considers war-*  
8 *ranted.*

9               “(D) *Specific implementation language for any*  
10 *statutory changes recommended.*

11       “(f) *DEFINITION.—In this section, the term ‘defense ac-*  
12 *quisition system’ has the meaning given that term in sec-*  
13 *tion 2545(2) of this title.’.*

14               (B) *CLERICAL AMENDMENT.—The table of*  
15 *sections at the beginning of such chapter is*  
16 *amended by inserting after the item relating to*  
17 *section 2165 the following new item:*

*“1746a. Center for Acquisition Innovation.”.*

18               (2) *DEADLINE FOR IMPLEMENTATION.—The Sec-*  
19 *retary of Defense shall establish the Center for Acqui-*  
20 *sition Innovation under section 1746a of title 10,*  
21 *United States Code, as added by subsection (a), not*  
22 *later than March 1, 2020. The first Director of the*  
23 *Center shall be appointed not later than June 1,*  
24 *2020, and the Center should be fully operational not*  
25 *later than June 1, 2021.*

1           (3) *IMPLEMENTATION REPORT.*—

2                   (A) *IN GENERAL.*—Not later than January  
3 1, 2021, the head of the Center of Acquisition In-  
4 novation shall submit to the Secretary of Defense  
5 a report setting forth the organizational plan for  
6 the Center for Acquisition Innovation, the pro-  
7 posed budget for the Center, and the timetable for  
8 initial and full operations of the Center.

9                   (B) *TRANSMITTAL.*—The Secretary of De-  
10 fense shall transmit the report under paragraph  
11 (1), together with whatever comments the Sec-  
12 retary considers appropriate, to the Committee  
13 on Armed Services of the Senate and the Com-  
14 mittee on Armed Services of the House of Rep-  
15 resentatives not later than February 1, 2021.

16           (4) *RECORDS OF THE SECTION 809 PANEL.*—

17                   (A) *TRANSFER AND MAINTENANCE OF*  
18 *RECORDS.*—Following termination of the Section  
19 809 Panel, the records of the panel shall be  
20 transferred to, and shall be maintained by, the  
21 Defense Technical Information Center. Such  
22 transfer shall be accomplished not later than Au-  
23 gust 1, 2019.

24                   (B) *STATUS OF RECORDS.*—Working pa-  
25 pers, records of interview, and any other draft

1           work products generated for any purpose by the  
2           Section 809 Panel during its research are cov-  
3           ered by the deliberative process privilege exemp-  
4           tion under paragraph (5) of section 552(b) of  
5           title 5, United States Code.

6           (C) *DEFINITION.*—In this section, the term  
7           “Section 809 Panel” means the panel established  
8           by the Secretary of Defense pursuant to section  
9           809 of the National Defense Authorization Act  
10          for Fiscal Year 2016 (Public Law 114–92), as  
11          amended by section 863(d) of the National De-  
12          fense Authorization Act for Fiscal Year 2017  
13          (Public Law 114–328) and sections 803(c) and  
14          883 of the National Defense Authorization Act  
15          for Fiscal Year 2018 (Public Law 115–91).

## 16 ***Subtitle F—Industrial Base Matters***

### 17 ***SEC. 871. CONSIDERATION OF SUBCONTRACTING TO MI-*** 18 ***NORITY INSTITUTIONS.***

19          (a) *IN GENERAL.*—Chapter 141 of title 10, United  
20          States Code, is amended by adding at the end the following  
21          new section:

#### 22 ***“§2410t. Consideration of subcontracting to minority*** 23 ***institutions***

24          “(a) *CONSIDERATION OF SUBCONTRACTING TO MINOR-*  
25 *ITY INSTITUTIONS.*—The Secretary of Defense shall revise

1 *the Department of Defense Supplement to the Federal Ac-*  
 2 *quisition Regulation to require that the system used by the*  
 3 *Federal Government to monitor or record contractor past*  
 4 *performance for a grant or contract awarded to an institu-*  
 5 *tion of higher education includes incentives for the award*  
 6 *of a sub-grant or subcontract to minority institutions.*

7       “(b) *MINORITY INSTITUTION DEFINED.*—*In this sec-*  
 8 *tion, the term ‘minority institution’ means—*

9               “(1) *a part B institution (as that term is de-*  
 10 *finied in section 322(2) of the Higher Education Act*  
 11 *of 1965 (20 U.S.C. 1061(2)); or*

12               “(2) *any other institution of higher education*  
 13 *(as that term is defined in section 101 of such Act (20*  
 14 *U.S.C. 1001)) at which not less than 50 percent of the*  
 15 *total student enrollment consists of students from eth-*  
 16 *nic groups that are underrepresented in the fields of*  
 17 *science and engineering.”.*

18       “(b) *CLERICAL AMENDMENT.*—*The table of sections at*  
 19 *the beginning of such chapter is amended by adding at the*  
 20 *end the following new item:*

“2410t. *Consideration of subcontracting to minority institutions.”.*

21 **SEC. 872. SIZE STANDARD CALCULATIONS FOR CERTAIN**  
 22 **SMALL BUSINESS CONCERNS.**

23       “(a) *CLARIFYING AMENDMENT TO THE SMALL BUSI-*  
 24 *NESS RUNWAY EXTENSION ACT OF 2018.*—*Section*  
 25 *3(a)(2)(C) of the Small Business Act (15 U.S.C.*

1 632(a)(2)(C)) is amended by inserting “(including the Ad-  
2 ministration when acting pursuant to subparagraph (A))”  
3 after “no Federal department or agency”.

4 (b) *FINALIZATION OF SMALL BUSINESS RUNWAY EX-*  
5 *TENSION ACT OF 2018 RULES.*—The Administrator of the  
6 Small Business Administration shall issue a final rule im-  
7 plementing the Small Business Runway Extension Act of  
8 2018 (Public Law 115–324) not later than December 17,  
9 2019.

10 (c) *AMENDMENT TO SIZE STANDARDS FOR CERTAIN*  
11 *SMALL BUSINESS CONCERNS.*—

12 (1) *SIZE STANDARDS FOR SMALL BUSINESS CON-*  
13 *CERNS PROVIDING SERVICES.*—Section  
14 3(a)(2)(C)(i)(II) of the Small Business Act (15  
15 U.S.C. 632(a)(2)(C)(i)(II)) is amended by striking  
16 “not less than”.

17 (2) *SIZE STANDARDS FOR OTHER BUSINESS CON-*  
18 *CERNS.*—Section 3(a)(2)(C)(i)(III) of the Small  
19 Business Act (15 U.S.C. 632(a)(2)(C)(i)(III)) is  
20 amended by striking “not less than 3 years” and in-  
21 serting “5 years”.

22 (d) *TRANSITION PLAN FOR THE SMALL BUSINESS*  
23 *RUNWAY EXTENSION ACT OF 2018.*—

24 (1) *PLAN REQUIRED.*—Not later than 90 days  
25 after the date of the enactment of this Act, the Admin-

1        *istrator of the Small Business Administration shall*  
2        *implement a transition plan to assist business con-*  
3        *cerns and Federal agencies with compliance with the*  
4        *requirements of the Small Business Runway Exten-*  
5        *sion Act of 2018 (Public Law 115–324).*

6            (2) *3-YEAR CALCULATION FOR SIZE STAND-*  
7        *ARDS.—*

8            (A) *IN GENERAL.—The transition plan de-*  
9        *scribed under paragraph (1) shall include a re-*  
10        *quirement that, during the period beginning on*  
11        *December 17, 2018, and ending on the date that*  
12        *is 6 months after the date on which the Adminis-*  
13        *trator issues final rules implementing the Small*  
14        *Business Runway Extension Act of 2018 (Public*  
15        *Law 115–324), allows the use of a 3-year cal-*  
16        *ulation for a size standard to be applied to a*  
17        *business concern if the use of such 3-year cal-*  
18        *ulation allows such concern to be considered a*  
19        *small business concern under section 3(a)(1) of*  
20        *the Small Business Act (15 U.S.C. 632(a)(1)).*

21            (B) *3-YEAR CALCULATION DEFINED.—In*  
22        *this subsection, the term “3-year calculation”*  
23        *means—*

24            (i) *with respect to a business concern*  
25        *providing services described under clause*

1           (ii)(II) of such section, a determination of  
2           the size of such concern on the basis of the  
3           annual average gross receipts of such con-  
4           cern over a period of 3 years; and

5           (ii) with respect to a business concern  
6           described under clause (ii)(III) of such sec-  
7           tion, a determination of the size of such  
8           concern on the basis of data over a period  
9           of 3 years.

10       (e) *REQUIREMENT TO UPDATE SAM.*—Not later than  
11       90 days after the date of the enactment of this Act, the Sys-  
12       tem for Award Management (or any successor system) shall  
13       be updated to comply with the requirements of this Act.

14       **SEC. 873. MODIFICATIONS TO SMALL BUSINESS SUBCON-**  
15       **TRACTING.**

16       (a) *SMALL BUSINESS LOWER-TIER SUBCON-*  
17       *TRACTING.*—Section 8(d) of the Small Business Act (15  
18       U.S.C. 637(d)) is amended—

19           (1) by amending paragraph (16) to read as fol-  
20       lows:

21           “(16) *CREDIT FOR CERTAIN SMALL BUSINESS*  
22       *CONCERN SUBCONTRACTORS.*—

23           “(A) *IN GENERAL.*—For purposes of deter-  
24       mining whether or not a prime contractor has

1           *attained the percentage goals specified in para-*  
2           *graph (6)—*

3                   “(i) *if the subcontracting goals pertain*  
4                   *only to a single contract with the Federal*  
5                   *agency, the prime contractor may elect to*  
6                   *receive credit for small business concerns*  
7                   *performing as first tier subcontractors or*  
8                   *subcontractors at any tier pursuant to the*  
9                   *subcontracting plans required under para-*  
10                   *graph (6)(D) in an amount equal to the*  
11                   *total dollar value of any subcontracts*  
12                   *awarded to such small business concerns;*  
13                   *and*

14                   “(ii) *if the subcontracting goals per-*  
15                   *tain to more than one contract with one or*  
16                   *more Federal agencies, or to one contract*  
17                   *with more than one Federal agency, the*  
18                   *prime contractor may only receive credit for*  
19                   *first tier subcontractors that are small busi-*  
20                   *ness concerns.*

21                   “(B) *COLLECTION AND REVIEW OF DATA ON*  
22                   *SUBCONTRACTING PLANS.—The head of each con-*  
23                   *tracting agency shall ensure that—*

24                   “(i) *the agency collects and reports*  
25                   *data on the extent to which contractors of*

1           *the agency meet the goals and objectives set*  
2           *forth in subcontracting plans submitted*  
3           *pursuant to this subsection; and*

4           “(ii) *the agency periodically reviews*  
5           *data collected and reported pursuant to sub-*  
6           *paragraph (A) for the purpose of ensuring*  
7           *that such contractors comply in good faith*  
8           *with the requirements of this subsection and*  
9           *subcontracting plans submitted by the con-*  
10          *tractors pursuant to this subsection.*

11          “(C) *RULE OF CONSTRUCTION.—Nothing in*  
12          *this paragraph shall be construed to allow a Fed-*  
13          *eral agency to establish a goaling requirement*  
14          *for a prime contractor eligible to receive credit*  
15          *under this paragraph that establishes an amount*  
16          *of subcontracts with a subcontractor that is not*  
17          *a first tier subcontractor for such prime con-*  
18          *tractor.”; and*

19          (2) *by adding at the end the following new para-*  
20          *graph:*

21                 “(18) *DISPUTE PROCESS FOR NON-PAYMENT TO*  
22                 *SUBCONTRACTORS.—*

23                 “(A) *NOTICE TO AGENCY.—With respect to*  
24                 *a contract with a Federal agency, a subcon-*  
25                 *tractor of a prime contractor on such contract*

1           *may, if the subcontractor has not received pay-*  
2           *ment for performance on such contract within 30*  
3           *days of the completion of such performance, no-*  
4           *tify the Office of Small and Disadvantaged Busi-*  
5           *ness Utilization (hereinafter referred to as*  
6           *‘OSDBU’) of the Federal agency and the prime*  
7           *contractor of such lack of payment.*

8           “(B) *AGENCY DETERMINATION.*—

9                   “(i) *IN GENERAL.*—Upon receipt of a  
10           *notice described under subparagraph (A)*  
11           *and if such notice is provided to the agency*  
12           *within the 15-day period following the end*  
13           *the 30-day period described in subpara-*  
14           *graph (A), the OSDBU shall verify whether*  
15           *such lack of payment has occurred and de-*  
16           *termine whether such lack of payment is*  
17           *due to an undue restriction placed on the*  
18           *prime contractor by an action of the Fed-*  
19           *eral agency.*

20                   “(ii) *RESPONSE DURING DETERMINA-*  
21           *TION.*—During the period in which the  
22           *OSDBU is making the determination under*  
23           *clause (i), the prime contractor may re-*  
24           *spond to both the subcontractor and the*  
25           *OSDBU with relevant verifying documenta-*

1            *tion to either prove payment or allowable*  
2            *status of nonpayment.*

3            *“(C) CURE PERIOD.—If the OSDBU*  
4            *verifies that the lack of payment under subpara-*  
5            *graph (B) is not due to an action of the Federal*  
6            *agency, and the prime contractor has not pro-*  
7            *vided verifying documentation described in sub-*  
8            *paragraph (B)(ii), the OSDBU shall notify the*  
9            *prime contractor and provide the prime con-*  
10           *tractor with a 15-day period in which the prime*  
11           *contractor may make the payment owed to the*  
12           *subcontractor.*

13           *“(D) RESULT OF NONPAYMENT.—If, after*  
14           *notifying the prime contractor under subpara-*  
15           *graph (C), the OSDBU determines that the*  
16           *prime contractor has not fully paid the amount*  
17           *owed within the 15-day period described under*  
18           *subparagraph (C), the OSDBU shall ensure that*  
19           *such failure to pay is reflected in the Contractor*  
20           *Performance Assessment Reporting system (or*  
21           *any successor system).”.*

22           *(b) MAINTENANCE OF RECORDS WITH RESPECT TO*  
23           *CREDIT UNDER A SUBCONTRACTING PLAN.—Section*  
24           *8(d)(6) of the Small Business Act (15 U.S.C. 637(d)(6)) is*  
25           *amended—*

1           (1) by redesignating subparagraphs (G) and (H)  
2           as subparagraphs (H) and (I), respectively (and con-  
3           forming the margins accordingly); and

4           (2) by inserting after subparagraph (F) the fol-  
5           lowing new subparagraph:

6           “(G) a recitation of the types of records the suc-  
7           cessful offeror or bidder will maintain to demonstrate  
8           that procedures have been adopted to substantiate the  
9           credit the successful offeror or bidder will elect to re-  
10          ceive under paragraph (16)(A)(i);”.

11 **SEC. 874. INCLUSION OF BEST IN CLASS DESIGNATIONS IN**  
12                           **ANNUAL REPORT ON SMALL BUSINESS**  
13                           **GOALS.**

14          Section 15(h) of the Small Business Act (15 U.S.C.  
15          644(h)) is amended by adding at the end the following new  
16          paragraph:

17                   “(4) **BEST IN CLASS SMALL BUSINESS PARTICI-**  
18                   **PATION REPORTING.—**

19                           “(A) **ADDENDUM.—**The Administrator, in  
20                           addition to the requirements under paragraph  
21                           (2), shall include in the report required by such  
22                           paragraph, for each best in class designation—

23                                   “(i) the total amount of spending Gov-  
24                                   ernmentwide in such designation;

1           “(ii) *the number of small business con-*  
2           *cerns awarded contracts and the dollar*  
3           *amount of such contracts awarded within*  
4           *each such designation to each of the fol-*  
5           *lowing—*

6                     “(I) *qualified HUBZone small*  
7                     *business concerns;*

8                     “(II) *small business concerns*  
9                     *owned and controlled by women;*

10                    “(III) *small business concerns*  
11                    *owned and controlled by service-dis-*  
12                    *abled veterans; and*

13                    “(IV) *small business concerns*  
14                    *owned and controlled by socially and*  
15                    *economically disadvantaged individ-*  
16                    *uals.*

17                    “(B) *BEST IN CLASS DEFINED.—The term*  
18                    *‘best in class’ has the meaning given such term*  
19                    *by the Director of the Office of Management and*  
20                    *Budget.*

21                    “(C) *EFFECTIVE DATE.—The Administrator*  
22                    *shall report on the information described by sub-*  
23                    *paragraph (A) beginning on the date that such*  
24                    *information is available in the Federal Procure-*

1           *ment Data System, the System for Award Man-*  
2           *agement, or any successor to such systems.”.*

3 **SEC. 875. SMALL BUSINESS ADMINISTRATION CYBERSECU-**  
4           **RITY REPORTS.**

5           *Section 10 of the Small Business Act (15 U.S.C. 639)*  
6 *is amended by inserting after subsection (a) the following:*

7           “(b) *CYBERSECURITY REPORTS.*—

8                   “(1) *ANNUAL REPORT.*—*Not later than 180 days*  
9                   *after the date of enactment of this subsection, and*  
10                   *every year thereafter, the Administrator shall submit*  
11                   *a report to the appropriate congressional committees*  
12                   *that includes—*

13                           “(A) *an assessment of the information tech-*  
14                           *nology (as defined in section 11101 of title 40,*  
15                           *United States Code) and cybersecurity infra-*  
16                           *structure of the Administration;*

17                           “(B) *a strategy to increase the cybersecurity*  
18                           *infrastructure of the Administration;*

19                           “(C) *a detailed account of any information*  
20                           *technology equipment or interconnected system*  
21                           *or subsystem of equipment of the Administration*  
22                           *that was manufactured by an entity that has its*  
23                           *principal place of business located in China,*  
24                           *Iran, Russia, or North Korea; and*

1           “(D) an account of any cybersecurity risk  
2 or incident that occurred at the Administration  
3 during the 2-year period preceding the date on  
4 which the report is submitted, and any action  
5 taken by the Administrator to respond to or re-  
6 mediate any such cybersecurity risk or incident.

7           “(2) *ADDITIONAL REPORTS.*—If the Adminis-  
8 trator determines that there is a reasonable basis to  
9 conclude that a cybersecurity risk or incident oc-  
10 curred at the Administration, the Administrator  
11 shall—

12           “(A) not later than 7 days after the date on  
13 which the Administrator makes that determina-  
14 tion, notify the appropriate congressional com-  
15 mittees of the cybersecurity risk or incident; and

16           “(B) not later than 30 days after the date  
17 on which the Administrator makes a determina-  
18 tion under subparagraph (A)—

19           “(i) provide notice to individuals and  
20 small business concerns affected by the cy-  
21 bersecurity risk or incident; and

22           “(ii) submit to the appropriate con-  
23 gressional committees a report, based on in-  
24 formation available to the Administrator as

1                   of the date which the Administrator submits  
2                   the report, that includes—

3                   “(I) a summary of information  
4                   about the cybersecurity risk or inci-  
5                   dent, including how the cybersecurity  
6                   risk or incident occurred; and

7                   “(II) an estimate of the number of  
8                   individuals and small business con-  
9                   cerns affected by the cybersecurity risk  
10                  or incident, including an assessment of  
11                  the risk of harm to affected individuals  
12                  and small business concerns.

13                  “(3) *RULE OF CONSTRUCTION.*—Nothing in this  
14                  subsection shall be construed to affect the reporting re-  
15                  quirements of the Administrator under chapter 35 of  
16                  title 44, United States Code, in particular the re-  
17                  quirement to notify the Federal information security  
18                  incident center under section 3554(b)(7)(C)(ii) of such  
19                  title, or any other provision of law.

20                  “(4) *DEFINITIONS.*—In this subsection:

21                  “(A) *APPROPRIATE CONGRESSIONAL COM-*  
22                  *MITTEES.*—The term ‘appropriate congressional  
23                  committees’ means—

24                  “(i) the Committee on Small Business  
25                  and Entrepreneurship of the Senate; and

1                   “(ii) the Committee on Small Business  
2                   of the House of Representatives.

3                   “(B) *CYBERSECURITY RISK; INCIDENT.*—  
4                   The terms ‘cybersecurity risk’ and ‘incident’ have  
5                   the meanings given such terms, respectively,  
6                   under section 2209(a) of the Homeland Security  
7                   Act of 2002.”.

8 **SEC. 876. CYBER COUNSELING CERTIFICATION PROGRAM**  
9                   **FOR LEAD SMALL BUSINESS DEVELOPMENT**  
10                  **CENTERS.**

11                  Section 21 of the Small Business Act (15 U.S.C. 648)  
12 is amended by adding at the end the following:

13                  “(o) *CYBER COUNSELING CERTIFICATION PROGRAM*  
14 *FOR LEAD SMALL BUSINESS DEVELOPMENT CENTERS.*—

15                  “(1) *CERTIFICATION PROGRAM.*—The Adminis-  
16 trator shall establish a cyber counseling certification  
17 program, or approve a similar existing program, to  
18 certify employees of lead small business development  
19 centers to provide cyber planning assistance to small  
20 business concerns.

21                  “(2) *NUMBER OF CERTIFIED EMPLOYEES.*—The  
22 Administrator shall ensure that each lead small busi-  
23 ness development center has at least 1 employee, and  
24 not less than 10 percent of the total number of em-  
25 ployees of the lead small business development center,

1 *certified in providing cyber planning assistance*  
2 *under this subsection.*

3 “(3) *CONSIDERATION OF SMALL BUSINESS DE-*  
4 *VELOPMENT CENTER CYBER STRATEGY.*—*In carrying*  
5 *out this subsection, the Administrator, to the extent*  
6 *practicable, shall consider any cyber strategy methods*  
7 *included in the Small Business Development Center*  
8 *Cyber Strategy developed under section 1841(a)(3)(B)*  
9 *of the National Defense Authorization Act for Fiscal*  
10 *Year 2017 (Public Law 114–328; 130 Stat. 2662) and*  
11 *any cybersecurity outreach conducted pursuant to sec-*  
12 *tion 2209(l) of the Homeland Security Act of 2002.*

13 “(4) *REIMBURSEMENT FOR CERTIFICATION.*—  
14 *Subject to the availability of appropriations, the Ad-*  
15 *ministrator shall reimburse a lead small business de-*  
16 *velopment center in an amount not to exceed*  
17 *\$350,000 in any fiscal year for costs relating to the*  
18 *certification of an employee of the lead small business*  
19 *development center under the program established*  
20 *under paragraph (1).*

21 “(5) *DEFINITIONS.*—*In this subsection:*

22 “(A) *CYBER PLANNING ASSISTANCE.*—*The*  
23 *term ‘cyber planning assistance’ means counsel*  
24 *and assistance to improve the cybersecurity in-*  
25 *frastructure, awareness of cyber threat indica-*

1           tors, and cyber training programs for employees  
2           of a small business concern.

3                   “(B) *LEAD SMALL BUSINESS DEVELOPMENT*  
4           *CENTER.*—*The term ‘lead small business develop-*  
5           *ment center’ means a small business development*  
6           *center that has received a grant under this sec-*  
7           *tion.’.*”

8   **SEC. 877. EXEMPTION OF CERTAIN CONTRACTS FROM THE**  
9                   **PERIODIC INFLATION ADJUSTMENTS TO THE**  
10                   **ACQUISITION-RELATED DOLLAR THRESHOLD.**

11           *Subparagraph (B) of section 1908(b)(2) of title 41,*  
12           *United States Code, is amended by inserting “3131 to*  
13           *3134,” after “sections”.*

14   **SEC. 878. IMPROVEMENTS TO CERTAIN DEFENSE INNOVA-**  
15                   **TION PROGRAMS.**

16           *(a) ALIGNMENT OF THE SMALL BUSINESS INNOVATION*  
17           *RESEARCH PROGRAM AND SMALL BUSINESS TECHNOLOGY*  
18           *TRANSFER PROGRAM OF THE DEPARTMENT OF DEFENSE*  
19           *WITH THE NATIONAL DEFENSE SCIENCE AND TECH-*  
20           *NOLOGY STRATEGY.—*

21                   *(1) IN GENERAL.—The Secretary of Defense and*  
22           *Secretaries of the military departments shall, to the*  
23           *extent practicable, align the research topics selected*  
24           *for activities conducted under the Small Business In-*  
25           *novation Research Program and Small Business*

1        *Technology Transfer Program (as defined under sec-*  
2        *tion 9 of the Small Business Act (15 U.S.C. 638) with*  
3        *the National Defense Science and Technology Strategy*  
4        *established under section 218 of the John. S. McCain*  
5        *National Defense Authorization Act for Fiscal Year*  
6        *2019 (Public Law 115–232; 132 Stat. 1679).*

7                (2) *USE OF NATIONAL DEFENSE SCIENCE AND*  
8        *TECHNOLOGY STRATEGY TO DETERMINE RESEARCH*  
9        *TOPICS.—Section 9 of the Small Business Act (15*  
10        *U.S.C. 638) is amended—*

11                (A) *in subsection (g)(3)(B), by striking “,*  
12        *in the 1992 report” and all that follows through*  
13        *“that authority” and inserting “in the National*  
14        *Defense Science and Technology Strategy estab-*  
15        *lished under section 218 of the John. S. McCain*  
16        *National Defense Authorization Act for Fiscal*  
17        *Year 2019 (Public Law 115–232; 132 Stat.*  
18        *1679)”;* and

19                (B) *in subsection (o)(3)(B), by striking “,*  
20        *in accordance with section 2522 of title 10,*  
21        *United States Code” and inserting “in the Na-*  
22        *tional Defense Science and Technology Strategy*  
23        *established under section 218 of the John. S.*  
24        *McCain National Defense Authorization Act for*

1           *Fiscal Year 2019 (Public Law 115–232; 132*  
2           *Stat. 1679)*”.

3           **(b) PILOT PROGRAM FOR DOMESTIC INVESTMENT**  
4 **UNDER THE SBIR PROGRAM.—**

5           **(1) SENSE OF CONGRESS.—***It is the sense of*  
6           *Congress that the Administrator of the Small Busi-*  
7           *ness Administration should promulgate regulations to*  
8           *carry out the requirements under section 9(dd) of the*  
9           *Small Business Act (15 U.S.C. 638(dd)) that—*

10                   **(A)** *permit small business concerns that are*  
11                   *majority-owned by multiple venture capital op-*  
12                   *erating companies, hedge funds, or private eq-*  
13                   *uity firms to participate in the SBIR program*  
14                   *in accordance with such section;*

15                   **(B)** *provide specific information regarding*  
16                   *eligibility, participation, and affiliation rules to*  
17                   *such small business concerns; and*

18                   **(C)** *preserve and maintain the integrity of*  
19                   *the SBIR program as a program for small busi-*  
20                   *ness concerns in the United States by prohibiting*  
21                   *large entities or foreign-owned entities from par-*  
22                   *ticipation in the SBIR program.*

23           **(2) DOMESTIC INVESTMENT PILOT PROGRAM.—**

24                   **(A) IN GENERAL.—***Not later than 1 year*  
25                   *after the date of the enactment of this Act and*

1           *notwithstanding the requirements of section*  
2           *9(dd) of the Small Business Act (15 U.S.C.*  
3           *638(dd)), the Secretary of Defense shall create*  
4           *and administer a program to be known as the*  
5           *“Domestic Investment Pilot Program” under*  
6           *which the Secretary and the service acquisition*  
7           *executive for each military department may*  
8           *make a SBIR award to a small business concern*  
9           *that is majority-owned by multiple United*  
10          *States-owned venture capital operating compa-*  
11          *nies, hedge funds, or private equity firms with-*  
12          *out providing the written determination de-*  
13          *scribed under paragraph (2) of such section*  
14          *9(dd).*

15                 *(B) LIMITATION.—The Secretary of Defense*  
16                 *may award not more than 10 percent of the*  
17                 *funds allocated for the SBIR program of the De-*  
18                 *partment of Defense under section 9(f) of the*  
19                 *Small Business Act (15 U.S.C. 638(f)) to small*  
20                 *business concerns that are owned in majority*  
21                 *part by multiple venture capital operating com-*  
22                 *panies, hedge funds, or private equity firms*  
23                 *through competitive, merit-based procedures that*  
24                 *are open to all eligible small business concerns.*

1           (C) *EVALUATION CRITERIA.*—*In carrying*  
2 *out the Domestic Investment Pilot Program, the*  
3 *Secretary of Defense may not use investment of*  
4 *venture capital or investment from hedge funds*  
5 *or private equity firms as a criterion for the*  
6 *award of contracts under the SBIR program or*  
7 *STTR program.*

8           (D) *ANNUAL REPORTING.*—*The Secretary of*  
9 *Defense shall include as part of each annual re-*  
10 *port required under section 9(b)(7) of the Small*  
11 *Business Act (15 U.S.C. 638(9)(b)(7)) )—*

12                 (i) *information on the implementation*  
13 *of the Domestic Investment Pilot Program;*

14                 (ii) *the number of proposals received*  
15 *from small business concerns that are ma-*  
16 *jority-owned by multiple venture capital*  
17 *operating companies, hedge funds, or pri-*  
18 *vate equity firms for the Domestic Invest-*  
19 *ment Pilot Program; and*

20                 (iii) *the number of awards made to*  
21 *such small business concerns.*

22           (E) *TERMINATION.*—*The Domestic Invest-*  
23 *ment Pilot Program established under this sub-*  
24 *section shall terminate on September 30, 2022.*

25           (3) *DEFINITIONS.*—*In this section:*

1           (A) *SBIR*.—*The term “SBIR” has the*  
2           *meaning given in section 9(e) of the Small Busi-*  
3           *ness Act (15 U.S.C. 638(e)).*

4           (B) *SMALL BUSINESS ACT DEFINITIONS*.—  
5           *The terms “small business concern”, “venture*  
6           *capital operating company”, “hedge fund”, and*  
7           *“private equity firm” have the meanings given*  
8           *those terms, respectively, in section 3 of the*  
9           *Small Business Act (15 U.S.C. 632).*

10          (c) *CYBERSECURITY TECHNICAL ASSISTANCE FOR*  
11          *SBIR AND STTR PROGRAMS*.—

12           (1) *IN GENERAL*.—*The Secretary of Defense may*  
13           *enter into an agreement with 1 or more vendors se-*  
14           *lected under section (9)(q)(2) of the Small Business*  
15           *Act (15 U.S.C. 638(q)(2)) to provide small business*  
16           *concerns engaged in SBIR or STTR projects with cy-*  
17           *bersecurity technical assistance , such as access to a*  
18           *network of cybersecurity experts and engineers en-*  
19           *gaged in designing and implementing cybersecurity*  
20           *practices.*

21           (2) *AMOUNTS*.—*In carrying out paragraph (1),*  
22           *the Secretary of Defense may provide the amounts de-*  
23           *scribed under section (9)(q)(3) of such Act (15 U.S.C.*  
24           *638(q)(3)) to a recipient that meets the eligibility re-*  
25           *quirements under the applicable subparagraph, if the*

1        *recipient requests to seek cybersecurity technical as-*  
2        *sistance from an individual or entity other than a*  
3        *vendor selected as described in paragraph (1).*

4        *(d) PHASE 0 PROOF OF CONCEPT PARTNERSHIP PRO-*  
5        *GRAM FOR THE DEPARTMENT OF DEFENSE.—Section 9(jj)*  
6        *of the Small Business Act (15 U.S.C. 638) is amended—*

7                *(1) in paragraph (1), by striking “The Director*  
8                *of the National Institutes of Health” and inserting “A*  
9                *covered agency head”;*

10                *(2) by striking “The Director” each place it ap-*  
11                *pears and inserting “A covered agency head”;*

12                *(3) by striking “the Director” each place it ap-*  
13                *pears and inserting “a covered agency head”;*

14                *(4) in paragraph (2)—*

15                        *(A) by amending subparagraph (A) to read*  
16                        *as follows:*

17                                *“(A) the term ‘covered agency head’*  
18                                *means—*

19                                        *“(i) with respect to the STTR program*  
20                                        *of the National Institutes of Health, the Di-*  
21                                        *rector of the National Institutes of Health;*  
22                                        *or*

23                                        *“(ii) with respect to the STTR pro-*  
24                                        *gram of the Department of Defense, the Sec-*  
25                                        *retary of Defense;”;* and

1           (B) in subparagraph (C), by striking “in  
2           the National Institutes of Health’s STTR pro-  
3           gram” and inserting “in either the STTR pro-  
4           gram of the Department of Defense or the STTR  
5           program of the National Institutes of Health”;  
6           and

7           (5) in paragraph (4)(A), by inserting “partici-  
8           pating in the STTR program administered by such  
9           agency head” after “a qualifying institution”.

10          (e) *MODIFICATION TO THE DEFENSE RESEARCH AND*  
11 *DEVELOPMENT RAPID INNOVATION PROGRAM.—*

12           (1) *INCREASE TO FUNDING.—*Section  
13 *2359a(b)(3) of title 10, United States Code, is amend-*  
14 *ed by striking “\$3,000,000” and inserting*  
15 *“\$6,000,000”.*

16           (2) *REPORT.—*Not later than 180 days after the  
17 *date of the enactment of this Act, the Secretary of De-*  
18 *fense shall submit to the congressional defense com-*  
19 *mittees a report on the program established under sec-*  
20 *tion 2359a(b)(3) of title 10, United States Code,*  
21 *(commonly known as the “Defense Research and De-*  
22 *velopment Rapid Innovation Program”), which shall*  
23 *include—*

24           (A) *with respect to the two fiscal years pre-*  
25 *ceding the submission of the report—*

1                   (i) a description of the total number of  
2                   proposals funded under the program;

3                   (ii) the percent of funds made available  
4                   under the program for Small Business In-  
5                   novation Research Program projects; and

6                   (iii) a list of Small Business Innova-  
7                   tion Research Program projects that re-  
8                   ceived funding under the program that were  
9                   included in major defense acquisition pro-  
10                  grams (as defined in section 2430 of title  
11                  10, United States Code) and other defense  
12                  acquisition programs that meet critical na-  
13                  tional security needs; and

14                  (B) an assessment on the effectiveness of the  
15                  program in stimulating innovation technologies,  
16                  reducing acquisition or lifecycle costs, addressing  
17                  technical risk, and improving the timeliness and  
18                  thoroughness of test and evaluation outcomes.

19                  (f) *ESTABLISHMENT OF JOINT RESERVE DETACH-*  
20                  *MENTS AT DEFENSE INNOVATION UNIT.—*

21                   (1) *ESTABLISHMENT.—The Secretary of Defense,*  
22                   *in consultation with the Secretaries of the military*  
23                   *departments, shall establish not fewer than three joint*  
24                   *reserve detachments (referred to in this section as*

1       “Detachments”) at locations of the Defense Innova-  
2       tion Unit—

3               (A) to support engagement and collabora-  
4               tion with commercial innovation hubs; and

5               (B) to accelerate the transition and adop-  
6               tion of commercial technologies for national secu-  
7               rity purposes.

8       (2) COMPOSITION.—Each Detachment shall be  
9       composed of members of the reserve components who  
10       possess relevant private sector experience in the fields  
11       of business, acquisition, intelligence, engineering,  
12       technology transfer, science, mathematics, contracting,  
13       procurement, logistics, cyberspace security, or such  
14       other fields as are determined to be relevant by the  
15       Under Secretary of Defense for Research and Engi-  
16       neering.

17       (3) RESPONSIBILITIES.—The Detachments shall  
18       have the following responsibilities:

19               (A) Each Detachment shall provide the De-  
20               partment of Defense with expertise, analysis, al-  
21               ternatives for innovation, and opportunities for  
22               greater engagement and collaboration between  
23               the defense innovation ecosystem and commercial  
24               industry.

1           (B) *Each Detachment shall, on an ongoing*  
2           *basis—*

3                   (i) *recruit, retain, and employ mem-*  
4                   *bers of the reserve components who possess*  
5                   *relevant private sector experience, as de-*  
6                   *scribed in paragraph (2);*

7                   (ii) *partner with the military services,*  
8                   *the combatant commands, and other De-*  
9                   *partment of Defense organizations to seek*  
10                   *and rapidly prototype advanced commercial*  
11                   *solutions while lowering the barrier to entry*  
12                   *to serve defense requirements;*

13                   (iii) *increase awareness of—*

14                           (I) *the technology portfolios of the*  
15                           *Defense Innovation Unit; and*

16                           (II) *the technology requirements of*  
17                           *the Department of Defense as identified*  
18                           *in the National Defense Science and*  
19                           *Technology Strategy developed under*  
20                           *section 218 of the John S. McCain Na-*  
21                           *tional Defense Authorization Act for*  
22                           *Fiscal Year 2019 (Public Law 115-*  
23                           *232; 132 Stat. 1679);*

24                   (iv) *capitalize on the growing invest-*  
25                   *ment in research and development made by*

1           *the commercial industry in assessing and*  
2           *maturing dual-use technologies; and*

3                   *(v) carry out such other activities as*  
4           *may be directed by the Under Secretary of*  
5           *Defense for Research and Engineering.*

6           (4) *DEADLINE FOR ESTABLISHMENT OF DETACH-*  
7           *MENTS.—The Secretary of Defense shall ensure that—*

8                   *(A) at least one Detachment is established*  
9           *on or before October 1, 2020; and*

10                   *(B) all three Detachments required under*  
11           *subsection (a) are established on or before Octo-*  
12           *ber 1, 2022.*

13           (5) *IMPLEMENTATION REPORT.—*

14                   *(A) IN GENERAL.—Not later than 120 days*  
15           *after the date of the enactment of this Act, the*  
16           *Under Secretary of Defense for Research and En-*  
17           *gineering shall submit to the congressional de-*  
18           *fense committees a report that includes—*

19                           *(i) an organizational plan for the De-*  
20                   *tachments;*

21                           *(ii) the estimated costs of establishing*  
22                   *the Detachments;*

23                           *(iii) a timeline specifying when each*  
24                   *Detachment will attain initial operational*

1           *capability and full operational capability,*  
2           *respectively.*

3           *(B) CONSULTATION.—In preparing the re-*  
4           *port required under subparagraph (A), the*  
5           *Under Secretary of Defense for Research and En-*  
6           *gineering shall consult with the Director of the*  
7           *Defense Innovation Unit and the head of each*  
8           *military service.*

9           *(g) MODIFICATION TO DEPARTMENT OF DEFENSE*  
10          *SBIR EXPENDITURES.—Section 9(f) of the Small Business*  
11          *Act (15 U.S.C. 638(f)) is amended—*

12                 *(1) in paragraph (1)(I), by inserting “, except as*  
13                 *provided in paragraph (5)” after “thereafter,” and*  
14                 *inserting “fiscal years 2017 through 2019; and”;* and

15                 *(2) by adding at the end the following new para-*  
16                 *graph:*

17                 *“(5) REQUIRED EXPENDITURE AMOUNTS FOR*  
18                 *THE DEPARTMENT OF DEFENSE.—With respect to fis-*  
19                 *cal year 2020 and each fiscal year thereafter, para-*  
20                 *graph (1)(I) shall apply to the Department of Defense*  
21                 *with ‘4.0 percent’ substituted for ‘3.2 percent’.”.*

1 **SEC. 879. PILOT PROGRAM FOR DEVELOPMENT OF TECH-**  
2 **NOLOGY-ENHANCED CAPABILITIES WITH**  
3 **PARTNERSHIP INTERMEDIARIES.**

4 (a) *ESTABLISHMENT.*—*The Secretary of Defense may*  
5 *authorize the Commander of the United States Special Op-*  
6 *erations Command to use not more than 5 percent of the*  
7 *funds required to be expended by the Department of Defense*  
8 *under section 9(f)(1) of the Small Business Act (15 U.S.C.*  
9 *638(f)(1)) for a pilot program to increase participation by*  
10 *small business concerns in the development of technology-*  
11 *enhanced capabilities for special operations forces.*

12 (b) *USE OF PARTNERSHIP INTERMEDIARY.*—

13 (1) *AUTHORIZATION.*—*The Commander of the*  
14 *United States Special Operations Command may*  
15 *modify an existing agreement with a partnership*  
16 *intermediary to assist the Commander in carrying*  
17 *out the pilot program under this section, including*  
18 *with respect to the award of Small Business Innova-*  
19 *tion Research Program contracts, Small Business*  
20 *Technology Transfer Program contracts, and other*  
21 *contracts and agreements to small business concerns.*

22 (2) *USE OF FUNDS.*—*None of the funds referred*  
23 *to in subsection (a) shall be used to pay a partnership*  
24 *intermediary for any administrative costs associated*  
25 *with the pilot program.*

1           (c) *REPORT.*—Not later than October 1, 2020, and Oc-  
2           tober 1, 2021, the Commander of the United States Special  
3           Operations Command shall submit to the congressional de-  
4           fense committees, the Committee on Small Business of the  
5           House of Representatives, and the Committee on Small  
6           Business and Entrepreneurship of the Senate a report de-  
7           scribing any agreement with a partnership intermediary  
8           entered into pursuant to this section. The report shall in-  
9           clude, for each such agreement, the amount of funds obli-  
10          gated, an identification of the recipient of such funds, and  
11          a description of the use of such funds.

12          (d) *TERMINATION.*—The authority to carry out a pilot  
13          program under this section shall terminate on September  
14          30, 2021.

15          (e) *DEFINITIONS.*—In this section:

16               (1) *PARTNERSHIP INTERMEDIARY.*—The term  
17               “partnership intermediary” has the meaning given  
18               the term in section 23(c) of the Stevenson-Wydler  
19               Technology Innovation Act of 1980 (15 U.S.C.  
20               3715(c)).

21               (2) *SMALL BUSINESS CONCERN.*—The term  
22               “small business concern” has the meaning given the  
23               term under section 3 of the Small Business Act (15  
24               U.S.C. 632).

1           (3) *SMALL BUSINESS INNOVATION RESEARCH*  
2           *PROGRAM.—The term “Small Business Innovation*  
3           *Research Program” has the meaning given the term*  
4           *in section 9(e)(4) of the Small Business Act (15*  
5           *U.S.C. 638(e)).*

6           (4) *SMALL BUSINESS TECHNOLOGY TRANSFER*  
7           *PROGRAM.—The term “Small Business Technology*  
8           *Transfer Program” has the meaning given the term*  
9           *in section 9(e)(5) of the Small Business Act (15*  
10          *U.S.C. 638(e)).*

11          (5) *TECHNOLOGY-ENHANCED CAPABILITY.—The*  
12          *term “technology-enhanced capability” means a prod-*  
13          *uct, concept, or process that improves the ability of a*  
14          *member of the Armed Forces to achieve an assigned*  
15          *mission.*

16 **SEC. 880. AUTHORIZED OFFICIAL TO CARRY OUT THE PRO-**  
17                                   **CUREMENT TECHNICAL ASSISTANCE COOP-**  
18                                   **ERATIVE AGREEMENT PROGRAM.**

19          (a) *AUTHORIZED OFFICIAL.—Effective October 1,*  
20          *2021, section 2411(3) of title 10, United States Code, is*  
21          *amended by striking “Director of Defense Logistics Agency”*  
22          *and inserting “Under Secretary of Defense for Acquisition*  
23          *and Sustainment”.*

24          (b) *REPORT AND BRIEFING.—Not later than November*  
25          *1, 2020, the Secretary of Defense shall provide to the con-*

1 *gressional defense committees a written report and briefing*  
2 *on the activities carried out in preparation for the transi-*  
3 *tion of responsibilities for carrying out the procurement*  
4 *technical assistance cooperative agreement program under*  
5 *chapter 142 of title 10, United States Code, from the Direc-*  
6 *tor of Defense Logistics Agency to the Under Secretary of*  
7 *Defense for Acquisition and Sustainment, as required by*  
8 *subsection (a).*

9       (c) *ANNUAL BUDGET JUSTIFICATION DOCUMENTS.*—  
10 *Not later than February 1, 2022, and each fiscal year there-*  
11 *after, the Secretary of Defense shall submit to the congres-*  
12 *sional defense committees a budget justification display that*  
13 *includes the procurement technical assistance cooperative*  
14 *agreement program under chapter 142 of title 10, United*  
15 *States Code, as part of the budget justification for Oper-*  
16 *ation and Maintenance, Defense-wide for the Office of the*  
17 *Secretary of Defense.*

18 **SEC. 881. PERMANENT AUTHORIZATION AND IMPROVE-**  
19                   **MENT OF DEPARTMENT OF DEFENSE MEN-**  
20                   **TOR-PROTEGE PROGRAM.**

21       (a) *PERMANENT AUTHORIZATION.*—*Section 831 of the*  
22 *National Defense Authorization Act for Fiscal Year 1991*  
23 *(Public Law 101–510; 10 U.S.C. 2302 note) is amended by*  
24 *striking subsection (j).*

1       (b) *OFFICE OF SMALL BUSINESS PROGRAMS OVER-*  
2 *SIGHT.*—Section 831 of the National Defense Authorization  
3 *Act for Fiscal Year 1991 (Public Law 101–510; 10 U.S.C.*  
4 *2302 note) is amended—*

5           (1) *by redesignating subsection (n) as subsection*  
6 *(o); and*

7           (2) *by inserting after subsection (m) the fol-*  
8 *lowing new subsection:*

9       “(n) *ESTABLISHMENT OF PERFORMANCE GOALS AND*  
10 *PERIODIC REVIEWS.*—The Office of Small Business Pro-  
11 *grams of the Department of Defense shall—*

12           “(1) *establish performance goals consistent with*  
13 *the stated purpose of the Mentor-Protege Program and*  
14 *outcome-based metrics to measure progress in meeting*  
15 *those goals; and*

16           “(2) *submit to the congressional defense commit-*  
17 *tees, not later than February 1, 2020, a report on*  
18 *progress made toward implementing these perform-*  
19 *ance goals and metrics, based on periodic reviews of*  
20 *the procedures used to approve mentor-protege agree-*  
21 *ments.”.*

22       (c) *MODIFICATION OF DISADVANTAGED SMALL BUSI-*  
23 *NESS CONCERN DEFINITION.*—Subsection (o)(2) of the Na-  
24 *tional Defense Authorization Act for Fiscal Year 1991 (Pub-*  
25 *lic Law 101–510; 10 U.S.C. 2302 note), as redesignated by*

1 subsection (b)(1) of this section, is amended by striking “has  
2 less than half the size standard corresponding to its pri-  
3 mary North American Industry Classification System  
4 code” and inserting “is not more than the size standard  
5 corresponding to its primary North American Industry  
6 Classification System code”.

7 (d) *REMOVAL OF PILOT PROGRAM REFERENCES.*—  
8 Section 831 of the National Defense Authorization Act for  
9 Fiscal Year 1991 (Public Law 101–510; 10 U.S.C. 2302  
10 note) is amended—

11 (1) in the subsection heading for subsection (a),  
12 by striking “PILOT”; and

13 (2) by striking “pilot” each place it appears.

14 (e) *INDEPENDENT REPORT ON PROGRAM EFFECTIVE-*  
15 *NESS.*—

16 (1) *IN GENERAL.*—The Secretary of Defense shall  
17 direct the Defense Business Board to submit to the  
18 congressional defense committees a report evaluating  
19 the effectiveness of the Mentor-Protege Program estab-  
20 lished under section 831 of the National Defense Au-  
21 thorization Act for Fiscal Year 1991 (Public Law  
22 101–510; 10 U.S.C. 2302 note), including rec-  
23 ommendations for improving the program in terms of  
24 performance metrics, forms of assistance, and overall  
25 program effectiveness not later than March 31, 2022.

1           (2) *CONGRESSIONAL DEFENSE COMMITTEES DE-*  
2           *FINED.—In this subsection, the term “congressional*  
3           *defense committees” has the meaning given that term*  
4           *in section 101(a)(16) of title 10, United States Code.*

5           ***Subtitle G—Other Matters***

6           ***SEC. 891. REQUIREMENT TO USE MODELS OF COMMERCIAL***  
7           ***E-COMMERCE PORTAL PROGRAM.***

8           (a) *IN GENERAL.—Before the award of a final contract*  
9           *to a commercial e-commerce portal provider pursuant to*  
10           *section 846 of the National Defense Authorization Act for*  
11           *Fiscal Year 2018 (Public Law 115–91; 41 U.S.C. 1901*  
12           *note), the Administrator of General Services shall establish*  
13           *a five-year program to test the three models for commercial*  
14           *e-commerce portals identified in section 4.1 of “Procure-*  
15           *ment Through Commercial E-Commerce Portals Phase II*  
16           *Report: Market Research & Consultation” issued by the Ad-*  
17           *ministrator in April 2019.*

18           (b) *ANALYSIS.—The Administrator shall conduct an*  
19           *analysis of the use of the three models described in sub-*  
20           *section (a) to determine which model is the most effective*  
21           *for procurement through commercial e-commerce portals.*

1 **SEC. 892. REPORT AND DATABASE ON ITEMS MANUFAC-**  
2 **TURED IN THE UNITED STATES FOR MAJOR**  
3 **DEFENSE ACQUISITION PROGRAMS.**

4 (a) *SENSE OF CONGRESS.*—*It is the sense of Congress*  
5 *that any equipment or products purchased for major defense*  
6 *acquisition programs (as defined in section 2430 of title*  
7 *10, United States Code) should be manufactured in the*  
8 *United States substantially all from articles, materials, or*  
9 *supplies mined, produced, or manufactured in the United*  
10 *States, and that any such equipment or products purchased*  
11 *by any entity of the Department of Defense should be Amer-*  
12 *ican-made, provided that American-made equipment and*  
13 *products are of a quality similar to that of competitive of-*  
14 *fers and are available in a timely manner to meet mission*  
15 *requirements.*

16 (b) *IN GENERAL.*—*Chapter 144 of title 10, United*  
17 *States Code, is amended by inserting after section 2436 the*  
18 *following new section:*

19 **“§2436a. Major defense acquisition programs: report**  
20 **and database on items manufactured in**  
21 **the United States**

22 *“(a) REPORT.*—*Beginning not later than one year*  
23 *after the date of the enactment of this Act, the Secretary*  
24 *of Defense shall submit to the congressional defense commit-*  
25 *tees an annual report on the percentage of any items pro-*  
26 *cured in connection with a major defense acquisition pro-*

1 gram that are manufactured in the United States substan-  
2 tially all from articles, materials, or supplies mined, pro-  
3 duced, or manufactured in the United States.

4 “(b) *DATABASE.*—The Secretary of Defense shall estab-  
5 lish a database for information related to items described  
6 in the report required under subsection (a) that can be used  
7 for continuous data analysis to inform acquisition decisions  
8 relating to major defense acquisition programs.”.

9 (c) *CLERICAL AMENDMENT.*—The table of section at  
10 the beginning of such chapter is amended by inserting after  
11 the item relating to section 2436 the following new item:

“2436a. Major defense acquisition programs: report and database on items manu-  
factured in the United States.”.

12 **SEC. 893. REQUIREMENTS RELATING TO SELECTED ACQUI-**  
13 **SITION REPORTS.**

14 (a) *INAPPLICABILITY OF TERMINATION OF REPORT*  
15 *SUBMITTAL TO CONGRESS.*—

16 (1) *IN GENERAL.*—Selected Acquisition Reports  
17 required by section 2432 of title 10, United States  
18 Code, shall not constitute reports covered by sub-  
19 section (b) of section 1080 of the National Defense Au-  
20 thorization Act for Fiscal Year 2016 (Public Law  
21 114–92; 129 Stat. 1000; 10 U.S.C. 111 note), and  
22 their submittal to Congress as required by such sec-  
23 tion 2432 shall not be terminated by operation of sub-  
24 section (a) of such section 1080.

1           (2) *CONFORMING AMENDMENT.*—*Effective on De-*  
2           *cember 30, 2021, section 1051(x) of the National De-*  
3           *fense Authorization Act for Fiscal Year 2018 (Public*  
4           *Law 115–91; 131 Stat. 1567) is amended by striking*  
5           *paragraph (4).*

6           (b) *FORM OF SELECTED ACQUISITION REPORTS.*—  
7           *Section 2432 of title 10, United States Code, is amended*  
8           *by adding at the end the following new subsection:*

9           “(i) *A report required under this section shall be sub-*  
10          *mitted in unclassified form without any designation relat-*  
11          *ing to dissemination control, but may contain a classified*  
12          *annex.”.*

13          (c) *REPORT ON ALTERNATIVE METHODOLOGY.*—*The*  
14          *Secretary of Defense shall include with the budget for fiscal*  
15          *year 2021, as submitted to Congress pursuant to section*  
16          *1105(a) of title 31, United States Code, a report proposing*  
17          *an alternative methodology for providing status reports on*  
18          *major defense acquisition programs and other acquisition*  
19          *activities, including programs carried out under section*  
20          *804 of the National Defense Authorization Act for Fiscal*  
21          *Year 2016 (Public Law 114–92; 10 U.S.C. 2302 note),*  
22          *where such status reports shall include information on—*

23                 (1) *scheduled and completed cybersecurity tests of*  
24                 *software acquired through a program covered by the*  
25                 *status report, including assessments on cooperative*

1 *vulnerability and penetration and adversarial assess-*  
2 *ments;*

3 (2) *software development metrics, including ini-*  
4 *tial and most recent estimates of the projected value,*  
5 *sizing, schedule, and level of effort for software ac-*  
6 *quired through a program covered by the status re-*  
7 *port; and*

8 (3) *quality metrics for software acquired through*  
9 *a program covered by the status report.*

10 (d) *GUIDANCE ON CYBERSECURITY TESTS.*—*With re-*  
11 *spect to cybersecurity tests included in the alternative meth-*  
12 *odology report described in subsection (c)(1), the Secretary*  
13 *of Defense, in coordination with the Director of Operational*  
14 *Test and Evaluation, shall develop policies on the selection*  
15 *of cybersecurity tests, methods to consistently describe the*  
16 *cybersecurity tests, and methods to associate cybersecurity*  
17 *tests with a component part of a system or a version of*  
18 *the software tested.*

19 **SEC. 894. CONTRACTOR SCIENCE, TECHNOLOGY, ENGI-**  
20 **NEERING, AND MATH PROGRAMS.**

21 (a) *IN GENERAL.*—*Section 862 of National Defense*  
22 *Authorization Act for Fiscal Year 2012 (Public Law 112–*  
23 *181; 125 Stat. 1521; 10 U.S.C. note prec. 2191) is amend-*  
24 *ed—*

1           (1) *in subsection (a), in the matter preceding*  
2           *paragraph (1)—*

3                   (A) *by striking “Under Secretary of Defense*  
4                   *for Acquisition, Technology, and Logistics” and*  
5                   *inserting “Under Secretary of Defense for Re-*  
6                   *search and Engineering”; and*

7                   (B) *by striking “ensure that Department of*  
8                   *Defense contractors” and inserting “encourage*  
9                   *Department of Defense contractors to”; and*

10           (2) *by amending subsection (b) to read as fol-*  
11           *lows:*

12           “*(b) ALLOWABLE COST.—The cost of participating in*  
13           *activities described in subsection (a) to a Department of*  
14           *Defense contractor shall be deemed to be an allowable cost*  
15           *under a contract between the contractor and the Depart-*  
16           *ment of Defense.”.*

17           (b) *IMPLEMENTATION.—Not later than 180 days after*  
18           *the date of the enactment of this Act, the Secretary of De-*  
19           *fense shall issue such rules or guidance necessary to imple-*  
20           *ment the amendments made by this section.*

21           **SEC. 895. EXTENSION OF SUNSET RELATING TO FEDERAL**  
22                                   **DATA CENTER CONSOLIDATION INITIATIVE.**

23           *Subsection (e) of section 834 of the National Defense*  
24           *Authorization Act for Fiscal Year 2015 (44 U.S.C. 3601*  
25           *note) is amended by striking “2020” and inserting “2022”.*

1 **SEC. 896. REQUIREMENTS RELATING TO CERTAIN RAIL**  
2 **ROLLING STOCK PROCUREMENTS AND OPER-**  
3 **ATIONS.**

4 (a) *LIMITATION ON CERTAIN RAIL ROLLING STOCK*  
5 *PROCUREMENTS.*—Section 5323 of title 49, United States  
6 Code, is amended by adding at the end the following:

7 “(u) *LIMITATION ON CERTAIN RAIL ROLLING STOCK*  
8 *PROCUREMENTS.*—

9 “(1) *IN GENERAL.*—Except as provided in para-  
10 graph (5), financial assistance made available under  
11 this chapter shall not be used in awarding a contract  
12 or subcontract to an entity on or after the date of en-  
13 actment of this subsection for the procurement of rail  
14 rolling stock for use in public transportation if the  
15 manufacturer of the rail rolling stock—

16 “(A) is incorporated in or has manufac-  
17 turing facilities in the United States; and

18 “(B) is owned or controlled by, is a sub-  
19 sidiary of, or is otherwise related legally or fi-  
20 nancially to a corporation based in a country  
21 that—

22 “(i) is identified as a nonmarket econ-  
23 omy country (as defined in section 771(18)  
24 of the Tariff Act of 1930 (19 U.S.C.  
25 1677(18))) as of the date of enactment of  
26 this subsection;

1           “(ii) was identified by the United  
2           States Trade Representative in the most re-  
3           cent report required by section 182 of the  
4           Trade Act of 1974 (19 U.S.C. 2242) as a  
5           priority foreign country under subsection  
6           (a)(2) of that section; and

7           “(iii) is subject to monitoring by the  
8           Trade Representative under section 306 of  
9           the Trade Act of 1974 (19 U.S.C. 2416).

10          “(2) EXCEPTION.—For purposes of paragraph  
11          (1), the term ‘otherwise related legally or financially’  
12          does not include a minority relationship or invest-  
13          ment.

14          “(3) INTERNATIONAL AGREEMENTS.—This sub-  
15          section shall be applied in a manner consistent with  
16          the obligations of the United States under inter-  
17          national agreements.

18          “(4) CERTIFICATION FOR RAIL ROLLING  
19          STOCK.—

20                 “(A) IN GENERAL.—Except as provided in  
21                 paragraph (5), as a condition of financial assist-  
22                 ance made available in a fiscal year under sec-  
23                 tion 5337, a recipient that operates rail fixed  
24                 guideway service shall certify in that fiscal year  
25                 that the recipient will not award any contract or

1           *subcontract for the procurement of rail rolling*  
2           *stock for use in public transportation with a rail*  
3           *rolling stock manufacturer described in para-*  
4           *graph (1).*

5           “(B) *SEPARATE CERTIFICATION.*—*The cer-*  
6           *tification required under this paragraph shall be*  
7           *in addition to any certification the Secretary es-*  
8           *tablishes to ensure compliance with the require-*  
9           *ments of paragraph (1).*

10          “(5) *EXCEPTION.*—*This subsection, including the*  
11          *certification requirement under paragraph (4), shall*  
12          *not apply to the award of a contract or subcontract*  
13          *made by a public transportation agency with a rail*  
14          *rolling stock manufacturer described in paragraph (1)*  
15          *if the manufacturer and the public transportation*  
16          *agency have a contract for rail rolling stock that was*  
17          *executed before the date of enactment of this sub-*  
18          *section.”.*

19          “(b) *CYBERSECURITY CERTIFICATION FOR RAIL ROLL-*  
20          *ING STOCK AND OPERATIONS.*—*Section 5323 of title 49,*  
21          *United States Code, as amended by subsection (a), is*  
22          *amended by adding at the end the following:*

23          “(v) *CYBERSECURITY CERTIFICATION FOR RAIL ROLL-*  
24          *ING STOCK AND OPERATIONS.*—

1           “(1) *CERTIFICATION.*—As a condition of finan-  
2           cial assistance made available under this chapter, a  
3           recipient that operates a rail fixed guideway public  
4           transportation system shall certify that the recipient  
5           has established a process to develop, maintain, and  
6           execute a written plan for identifying and reducing  
7           cybersecurity risks.

8           “(2) *COMPLIANCE.*—For the process required  
9           under paragraph (1), a recipient of assistance under  
10          this chapter shall—

11                 “(A) utilize the approach described by the  
12                 voluntary standards and best practices developed  
13                 under section 2(c)(15) of the National Institute  
14                 of Standards and Technology Act (15 U.S.C.  
15                 272(c)(15)), as applicable;

16                 “(B) identify hardware and software that  
17                 the recipient determines should undergo third-  
18                 party testing and analysis to mitigate cybersecu-  
19                 rity risks, such as hardware or software for rail  
20                 rolling stock under proposed procurements; and

21                 “(C) utilize the approach described in any  
22                 voluntary standards and best practices for rail  
23                 fixed guideway public transportation systems de-  
24                 veloped under the authority of the Secretary of  
25                 Homeland Security, as applicable.

1           “(3) *LIMITATIONS ON STATUTORY CONSTRU-*  
2           *CTION.—Nothing in this subsection shall be construed*  
3           *to interfere with the authority of—*

4                     “(A) *the Secretary of Homeland Security to*  
5                     *publish or ensure compliance with requirements*  
6                     *or standards concerning cybersecurity for rail*  
7                     *fixed guideway public transportation systems; or*

8                     “(B) *the Secretary of Transportation under*  
9                     *section 5329 to address cybersecurity issues as*  
10                    *those issues relate to the safety of rail fixed*  
11                    *guideway public transportation systems.”.*

12 **SEC. 897. PROHIBITION ON CONTRACTING WITH PERSONS**  
13                    **THAT HAVE BUSINESS OPERATIONS WITH**  
14                    **THE MADURO REGIME.**

15           (a) *PROHIBITION.—Except as provided under sub-*  
16           *sections (c), (d), and (e), the Department of Defense may*  
17           *not enter into a contract for the procurement of goods or*  
18           *services with any person that has business operations with*  
19           *an authority of the Government of Venezuela that is not*  
20           *recognized as the legitimate Government of Venezuela by the*  
21           *United States Government.*

22           (b) *DEFINITIONS.—In this section:*

23                    (1) *BUSINESS OPERATIONS.—The term “business*  
24                    *operations” means engaging in commerce in any*  
25                    *form, including acquiring, developing, maintaining,*

1     *owning, selling, possessing, leasing, or operating*  
2     *equipment, facilities, personnel, products, services,*  
3     *personal property, real property, or any other appa-*  
4     *ratus of business or commerce.*

5             (2) *GOVERNMENT OF VENEZUELA.*—(A) *The term*  
6     *“Government of Venezuela” includes the government*  
7     *of any political subdivision of Venezuela, and any*  
8     *agency or instrumentality of the Government of Ven-*  
9     *ezeuela.*

10            (B) *For purposes of subparagraph (A), the term*  
11     *“agency or instrumentality of the Government of Ven-*  
12     *ezeuela” means an agency or instrumentality of a for-*  
13     *ign state as defined in section 1603(b) of title 28,*  
14     *United States Code, with each reference in such sec-*  
15     *tion to “a foreign state” deemed to be a reference to*  
16     *“Venezuela”.*

17            (3) *PERSON.*—*The term “person” means—*

18            (A) *a natural person, corporation, com-*  
19     *pany, business association, partnership, society,*  
20     *trust, or any other nongovernmental entity, or-*  
21     *ganization, or group;*

22            (B) *any governmental entity or instrumen-*  
23     *tality of a government, including a multilateral*  
24     *development institution (as defined in section*

1           1701(c)(3) of the International Financial Insti-  
2           tutions Act (22 U.S.C. 262r(c)(3)); and

3           (C) any successor, subunit, parent entity, or  
4           subsidiary of, or any entity under common own-  
5           ership or control with, any entity described in  
6           subparagraph (A) or (B).

7           (c) *EXCEPTIONS.*—

8           (1) *IN GENERAL.*—The prohibition under sub-  
9           section (a) does not apply to a contract that the Sec-  
10          retary of Defense and the Secretary of State jointly  
11          determine—

12           (A) is necessary—

13           (i) for purposes of providing humani-  
14           tarian assistance to the people of Venezuela,

15           (ii) for purposes of providing disaster  
16           relief and other urgent life-saving measures;

17           or

18           (iii) to carry out noncombatant evacu-  
19           ations; or

20           (B) is vital to the national security inter-  
21          ests of the United States.

22          (2) *NOTIFICATION REQUIREMENT.*—The Sec-  
23          retary of Defense shall notify the congressional defense  
24          committees, the Committee on Foreign Affairs of the  
25          House of Representatives, and the Committee on For-

1        *eign Relations of the Senate of any contract entered*  
2        *into on the basis of an exception provided for under*  
3        *paragraph (1).*

4        *(d) OFFICE OF FOREIGN ASSETS CONTROL LI-*  
5        *CENSES.—The prohibition in subsection (a) shall not apply*  
6        *to a person that has a valid license to operate in Venezuela*  
7        *issued by the Office of Foreign Assets Control.*

8        *(e) AMERICAN DIPLOMATIC MISSION IN VEN-*  
9        *EZUELA.—The prohibition in subsection (a) shall not apply*  
10       *to contracts related to the operation and maintenance of*  
11       *the United States Government’s consular offices and diplo-*  
12       *matic posts in Venezuela.*

13       *(f) APPLICABILITY.—This section shall apply with re-*  
14       *spect to any contract entered into on or after the date of*  
15       *the enactment of this section.*

1 **TITLE IX—DEPARTMENT OF DE-**  
2 **FENSE ORGANIZATION AND**  
3 **MANAGEMENT**

4 ***Subtitle A—Office of the Secretary***  
5 ***of Defense and Related Matters***

6 **SEC. 901. UPDATE OF AUTHORITIES RELATING TO NUCLEAR**  
7 **COMMAND, CONTROL, AND COMMUNICA-**  
8 **TIONS.**

9 *(a) DUTIES AND POWERS OF UNDER SECRETARY OF*  
10 *DEFENSE FOR ACQUISITION AND SUSTAINMENT.—Section*  
11 *133b(b) of title 10, United States Code, is amended—*

12 *(1) by redesignating paragraphs (4), (5), (6),*  
13 *and (7) as paragraphs (5), (6), (7), and (8), respec-*  
14 *tively;*

15 *(2) by inserting after paragraph (3) the fol-*  
16 *lowing new paragraph (4):*

17 *“(4) establishing policies for, and providing*  
18 *oversight, guidance, and coordination for, nuclear*  
19 *command and control systems;”;* and

20 *(3) in paragraph (6), as so redesignated, by in-*  
21 *serting after “overseeing the modernization of nuclear*  
22 *forces” the following: “, including the nuclear com-*  
23 *mand, control, and communications system,”.*

24 *(b) CHIEF INFORMATION OFFICER.—Section 142(b)(1)*  
25 *of such title is amended—*

- 1           (1) by striking subparagraph (G); and  
2           (2) by redesignating subparagraphs (H) and (I)  
3           as subparagraphs (G) and (H), respectively.

4     **Subtitle B—Other Department of**  
5     **Defense Organization and Man-**  
6     **agement Matters**

7     **SEC. 911. CODIFICATION OF ASSISTANT SECRETARIES FOR**  
8           **ENVIRONMENT, INSTALLATIONS, AND EN-**  
9           **ERGY OF THE ARMY, NAVY, AND AIR FORCE.**

10       (a) ASSISTANT SECRETARY OF THE ARMY.—Section  
11     7016(b) of title 10, United States Code, is amended by add-  
12     ing at the end the following new paragraph:

13       “(6)(A) One of the Assistant Secretaries shall be the  
14     Assistant Secretary for Installations, Energy, and Environ-  
15     ment.

16       “(B) The principal duty of the Assistant Secretary for  
17     Installations, Energy, and Environment shall be the overall  
18     supervision of installation, energy, and environment mat-  
19     ters for the Department of the Army.”.

20       (b) ASSISTANT SECRETARY OF THE NAVY.—Section  
21     8016(b) of title 10, United States Code, is amended by add-  
22     ing at the end the following new paragraph:

23       “(5)(A) One of the Assistant Secretaries shall be the  
24     Assistant Secretary for Energy, Installations, and Environ-  
25     ment.

1           “(B) *The principal duty of the Assistant Secretary for*  
2 *Energy, Installations, and Environment shall be the overall*  
3 *supervision of installation, energy, and environment mat-*  
4 *ters for the Department of the Navy.*”

5           (c) *ASSISTANT SECRETARY OF THE AIR FORCE.—Sec-*  
6 *tion 9016(b) of title 10, United States Code, is amended*  
7 *by adding at the end the following new paragraph:*

8           “(5)(A) *One of the Assistant Secretaries shall be the*  
9 *Assistant Secretary for Installations, Environment, and*  
10 *Energy.*

11           “(B) *The principal duty of the Assistant Secretary for*  
12 *Installations, Environment, and Energy shall be the overall*  
13 *supervision of installation, energy, and environment mat-*  
14 *ters for the Department of the Air Force.*”

15 **SEC. 912. LIMITATION ON AVAILABILITY OF FUNDS FOR**  
16 **CONSOLIDATION OF DEFENSE MEDIA ACTIV-**  
17 **ITY.**

18           *None of the funds authorized to be appropriated by this*  
19 *Act or otherwise made available for fiscal year 2020 for the*  
20 *Department of Defense may be used to consolidate the De-*  
21 *fense Media Activity until a period of 180 days has elapsed*  
22 *following the date of the enactment of this Act.*

1 **SEC. 913. MODERNIZATION OF CERTAIN FORMS AND SUR-**  
2 **VEYS.**

3 (a) *STUDY.*—*The Secretary of Defense shall conduct a*  
4 *study to identify each form and survey of the Department*  
5 *of Defense, in use on the date of the enactment of this Act,*  
6 *that contains a term or classification that the Secretary de-*  
7 *termines may be considered racially or ethnically insensi-*  
8 *tive.*

9 (b) *REPORTS.*—

10 (1) *INTERIM REPORTS.*—*On the date that is 90*  
11 *days after the date of the enactment of this Act, and*  
12 *on the date that is 180 days after such date of enact-*  
13 *ment, the Secretary shall submit to the Committees on*  
14 *Armed Services of the House of Representatives and*  
15 *the Senate a report on the status of the study con-*  
16 *ducted under subsection (a).*

17 (2) *FINAL REPORT.*—*Not later than one year*  
18 *after the date of the enactment of this Act, the Sec-*  
19 *retary shall submit to the Committees on Armed Serv-*  
20 *ices of the House of Representatives and the Senate a*  
21 *report on the results of the study conducted under*  
22 *subsection (a) that includes—*

23 (A) *a list of each form and survey identified*  
24 *under such study; and*

1                   (B) a plan for modernizing the terms and  
2                   classifications contained in such forms and sur-  
3                   veys, including legislative recommendations.

4           (c) *MODERNIZATION REQUIRED.*—Not later than 18  
5 months after the date of the enactment of this Act, the Sec-  
6 retary shall carry out the plan included in the report sub-  
7 mitted under subsection (b).

## 8                   ***Subtitle C—Space Matters***

### 9                   ***PART I—UNITED STATES SPACE CORPS***

#### 10 ***SEC. 921. ESTABLISHMENT OF UNITED STATES SPACE*** 11                   ***CORPS IN THE DEPARTMENT OF THE AIR*** 12                   ***FORCE.***

13           (a) *ESTABLISHMENT.*—Part I of subtitle D of title 10,  
14 United States Code, is amended by adding at the end the  
15 following new chapter:

#### 16                   ***“CHAPTER 909—THE SPACE CORPS***

“Sec.  
“9091. *Establishment of the Space Corps.*  
“9093. *Commandant of the Space Corps.*  
“9095. *Officer career field for space.*

#### 17                   ***“§ 9091. Establishment of the Space Corps***

18           “(a) *ESTABLISHMENT.*—There is established a United  
19 States Space Corps as an armed force within the Depart-  
20 ment of the Air Force.

21           “(b) *COMPOSITION.*—(1) *The Space Corps shall be*  
22 *composed of the following:*

23                   “(A) *The Commandant of the Space Corps.*

1           “(B) *The space forces and such assets as may be*  
2           *organic therein.*

3           “(2)(A) *The space forces specified in paragraph (1)(B)*  
4           *shall include the personnel and assets of the Air Force*  
5           *transferred to the Space Corps pursuant to the National*  
6           *Defense Authorization Act for Fiscal Year 2020.*

7           “(B) *The space forces specified in paragraph (1)(B)*  
8           *may not include the personnel or assets of the National Re-*  
9           *connnaissance Office or the National Geospatial-Intelligence*  
10          *Agency. Nothing in this section shall affect the authorities,*  
11          *duties, or responsibilities of the Director of the National Re-*  
12          *connnaissance Office and the Director of the National*  
13          *Geospatial-Intelligence Agency, including with respect to*  
14          *the authority of each such Director to—*

15                 “(i) *carry out the research, development, test,*  
16                 *and evaluation and procurement of satellites and user*  
17                 *satellite terminals of the Defense Agency of the Direc-*  
18                 *tor;*

19                 “(ii) *operate such terminals; and*

20                 “(iii) *develop requirements to ensure that the*  
21                 *space programs of the Department of Defense support*  
22                 *the mission of the Director.*

23           “(c) *FUNCTIONS.—The Space Corps shall be organized,*  
24           *trained, and equipped to provide—*

1           “(1) *freedom of operation for the United States*  
2           *in, from, and to space; and*

3           “(2) *prompt and sustained space operations.*

4           “(d) *DUTIES.—It shall be the duty of the Space Corps*  
5           *to—*

6           “(1) *protect the interests of the United States in*  
7           *space;*

8           “(2) *deter aggression in, from, and to space; and*

9           “(3) *conduct space operations.*

10          “(e) *ACQUISITION SYSTEM.—(1) The Secretary of the*  
11          *Air Force may establish a separate, alternative acquisition*  
12          *system for defense space acquisitions, including with respect*  
13          *to procuring space vehicles, ground segments relating to*  
14          *such vehicles, and satellite terminals, pursuant to the plan*  
15          *specified in paragraph (2).*

16          “(2) *The Deputy Secretary of Defense shall develop the*  
17          *plan, and submit such plan to the congressional defense*  
18          *committees, under section 1601(b) of the John S. McCain*  
19          *National Defense Authorization Act for Fiscal Year 2019*  
20          *(Public Law 115–232; 132 Stat. 2103).*

21          “(3) *The alternative acquisition system under para-*  
22          *graph (1) shall cover defense space acquisitions except with*  
23          *respect to the National Reconnaissance Office and other ele-*  
24          *ments of the Department of Defense that are elements of*

1 *the intelligence community (as defined in section 3 of the*  
2 *National Security Act of 1947 (50 U.S.C. 3003)).*

3       “(f) *PERSONNEL DEVELOPMENT.—(1) The Secretary*  
4 *may ensure the quality of the members of the Space Corps*  
5 *pursuant to the plan specified in paragraph (2) and section*  
6 *9095 of this title.*

7       “(2) *The Secretary shall develop the plan, and submit*  
8 *such plan to the congressional defense committees, under*  
9 *section 1601(c) of the John S. McCain National Defense Au-*  
10 *thorization Act for Fiscal Year 2019 (Public Law 115–232;*  
11 *132 Stat. 2103).*

12       “(3) *In carrying out paragraph (1), the Secretary*  
13 *shall address the following:*

14               “(A) *Managing the career progression of mem-*  
15 *bers of the Space Corps and civilian employees of the*  
16 *Space Corps throughout the military or civilian ca-*  
17 *reer of the member or the employee, as the case may*  
18 *be, including with respect to—*

19                       “(i) *defining career professional milestones;*

20                       “(ii) *pay and incentive structures;*

21                       “(iii) *the management and oversight of the*  
22 *Space Corps;*

23                       “(iv) *training relating to planning and exe-*  
24 *cuting warfighting missions and operations in*  
25 *space;*

1           “(v) conducting periodic Space Corps-wide  
2 professional assessments to determine how the  
3 Space Corps is developing as a group; and

4           “(vi) establishing a centralized method to  
5 control personnel assignments and distribution.

6           “(B) The identification of future space-related  
7 career fields that the Secretary determines appro-  
8 priate, including a space acquisition career field.

9           “(C) The identification of any overlap that exists  
10 among operations and acquisitions career fields to de-  
11 termine opportunities for cross-functional career op-  
12 portunities.

13 **“§9093. Commandant of the Space Corps**

14           “(a) APPOINTMENT.—(1) There is a Commandant of  
15 the Space Corps, appointed by the President, by and with  
16 the advice and consent of the Senate, from the general offi-  
17 cers of the Air Force. The Commandant serves at the pleas-  
18 ure of the President.

19           “(2) The Commandant shall be appointed for a term  
20 of four years. In time of war or during a national emer-  
21 gency declared by Congress, the Commandant may be re-  
22 appointed for a term of not more than four years.

23           “(b) GRADE.—The Commandant, while so serving, has  
24 the grade of general without vacating the permanent grade  
25 of the officer.

1           “(c) *RELATIONSHIP TO THE SECRETARY OF THE AIR*  
2 *FORCE.*—*Except as otherwise prescribed by law and subject*  
3 *to section 9013(f) of this title, the Commandant performs*  
4 *the duties of such position under the authority, direction,*  
5 *and control of the Secretary of the Air Force and is directly*  
6 *responsible to the Secretary.*

7           “(d) *DUTIES.*—*Subject to the authority, direction, and*  
8 *control of the Secretary of the Air Force, the Commandant*  
9 *shall—*

10                   “(1) *exercise supervision, consistent with the au-*  
11 *thority assigned to commanders of unified or specified*  
12 *combatant commands under chapter 6 of this title,*  
13 *over such of the members and organizations of the*  
14 *Space Corps as the Secretary determines; and*

15                   “(2) *perform such other military duties, not oth-*  
16 *erwise assigned by law, as are assigned to the Com-*  
17 *mandant by the President, the Secretary of Defense,*  
18 *or the Secretary of the Air Force.*

19           “(e) *JOINT CHIEFS OF STAFF.*—(1) *The Commandant*  
20 *shall also perform the duties prescribed for the Com-*  
21 *mandant as a member of the Joint Chiefs of Staff under*  
22 *section 151 of this title.*

23                   “(2) *To the extent that such action does not impair*  
24 *the independence of the Commandant in the performance*  
25 *of the duties of the Commandant as a member of the Joint*

1 *Chiefs of Staff, the Commandant shall inform the Secretary*  
2 *of the Air Force regarding military advice rendered by*  
3 *members of the Joint Chiefs of Staff on matters affecting*  
4 *the Department of the Air Force.*

5 “(3) *Subject to the authority, direction, and control*  
6 *of the Secretary of Defense, the Commandant shall keep the*  
7 *Secretary of the Air Force fully informed of significant*  
8 *military operations affecting the duties and responsibilities*  
9 *of the Secretary.”.*

10 (d) *CONFORMING AMENDMENTS.—*

11 (1) *JOINT CHIEFS OF STAFF.—*

12 (A) *MEMBERSHIP.—Section 151(a) of title*  
13 *10, United States Code, is amended—*

14 (i) *by redesignating paragraph (7) as*  
15 *paragraph (8); and*

16 (ii) *by inserting after paragraph (6)*  
17 *the following new paragraph:*

18 “(7) *The Commandant of the Space Corps.”.*

19 (B) *APPOINTMENT.—Section 152(b)(1)(B)*  
20 *of such title is amended by striking “or the Com-*  
21 *mandant of the Marine Corps” and inserting*  
22 *“the Commandant of the Marine Corps, or the*  
23 *Commandant of the Space Corps”.*

24 (2) *OFFICER CAREERS.—Chapter 907 of such*  
25 *title is amended as follows:*

1           (A) *In section 9084, by striking “officers in*  
2 *the Air Force” and inserting “officers in the*  
3 *Space Corps”.*

4           (B) *By transferring section 9084, as*  
5 *amended by subparagraph (A), to chapter 909*  
6 *and redesignating such section as section 9095.*

7           (C) *In the table of sections, by striking the*  
8 *item relating to section 9084.*

9           (3) *SECRETARY OF THE AIR FORCE.—Section*  
10 *9013 of such title is amended—*

11           (A) *in subsection (f), by inserting “and*  
12 *Space Corps” after “Officers of the Air Force”;*  
13 *and*

14           (B) *in subsection (g)(1), by inserting “and*  
15 *Space Corps” after “members of the Air Force”.*

16           (4) *DEFINITIONS.—Section 101 of such title is*  
17 *amended—*

18           (A) *in subsection (a)—*

19           (i) *in paragraph (4), by inserting*  
20 *“Space Corps,” after “Marine Corps,”; and*

21           (ii) *in paragraph (9)(C), by inserting*  
22 *“and the Space Corps” after “concerning*  
23 *the Air Force”; and*

24           (B) *in subsection (b)—*

1                   (i) in paragraph (4), by striking “or  
2                   Marine Corps” and inserting “Marine  
3                   Corps, or Space Corps”; and

4                   (ii) in paragraph (13), by striking “or  
5                   Marine Corps” and inserting “Marine  
6                   Corps, or Space Corps”.

7           (e) *CLERICAL AMENDMENT.*—The table of chapters for  
8 part I of subtitle D of title 10, United States Code, is  
9 amended by adding at the end the following new item:

“909. The Space Corps”.

10 **SEC. 922. TRANSFER OF PERSONNEL, FUNCTIONS, AND AS-**  
11 **SETS TO THE SPACE CORPS.**

12           (a) *TRANSFERS.*—

13                   (1) *TRANSFER OF MILITARY PERSONNEL.*—

14                           (A) *IN GENERAL.*—The Secretary of Defense  
15 shall, during the transition period, transfer all  
16 covered military personnel to the Space Corps.

17                           (B) *RETENTION IN GRADE AND STATUS.*—

18 Covered military personnel transferred to the  
19 Space Corps pursuant to subparagraph (A) shall  
20 retain the grade and date of obtaining such  
21 grade that the individual person had before the  
22 date of the transfer unless otherwise altered or  
23 terminated in accordance with law.

24                           (2) *TRANSFER OF FUNCTIONS.*—Except as other-  
25 wise directed by the Secretary of Defense, all func-

1        *tions, assets, and obligations of the space elements of*  
2        *the Air Force (including all property, records, instal-*  
3        *lations, activities, facilities, agencies, and projects of*  
4        *such elements) shall be transferred to the Space Corps.*

5        *(b) CONFORMING REPEAL.—*

6            *(1) IN GENERAL.—Chapter 135 of title 10,*  
7        *United States Code, is amended by striking section*  
8        *2279c.*

9            *(2) CLERICAL AMENDMENT.—The table of sec-*  
10        *tions at the beginning of such chapter is amended by*  
11        *striking the item relating to section 2279c.*

12            *(3) EFFECTIVE DATE.—The amendments made*  
13        *by paragraphs (1) and (2) shall take effect on the date*  
14        *on which the transition period terminates, as deter-*  
15        *mined by the Secretary of Defense in accordance with*  
16        *subsection (c), which date shall be not later than De-*  
17        *cember 30, 2023.*

18            *(c) NOTICE TO CONGRESS.—Not later than 30 days be-*  
19        *fore the date on which the transition period terminates, the*  
20        *Secretary of Defense shall submit to the congressional de-*  
21        *fense committees a certification that identifies the date on*  
22        *which transition period will terminate.*

23            *(d) DEFINITIONS.—In this section:*

24            *(1) The term “covered military personnel”*  
25        *means commissioned officers and enlisted members of*

1 *the space elements of the Air Force who are assigned*  
2 *to such elements as of the date on which such officers*  
3 *and members are transferred under subsection (a)(1).*

4 (2) *The term “transition period” means a period*  
5 *prescribed by the Secretary of Defense that—*

6 (A) *begins on January 1, 2021; and*

7 (B) *ends not later than December 30, 2023.*

8 **SEC. 923. REPORTS ON SPACE CORPS.**

9 (a) *REPORT ON STRUCTURE OF SPACE CORPS.—*

10 (1) *IN GENERAL.—The Secretary of Defense shall*  
11 *submit to the congressional defense committees a re-*  
12 *port that includes a detailed plan for the organiza-*  
13 *tional structure of the Space Corps.*

14 (2) *ELEMENTS.—The report required under*  
15 *paragraph (1) shall include—*

16 (A) *a detailed description of the structure*  
17 *and organizational elements required for the*  
18 *Space Corps to perform its mission;*

19 (B) *a detailed description of the organiza-*  
20 *tion and staff required to support the Com-*  
21 *mandant of the Space Corps;*

22 (C) *a detailed explanation of how establish-*  
23 *ment of the Space Corps is expected to affect the*  
24 *composition and function of the space elements of*  
25 *the Armed Forces;*

1           (D) a description of how the Space Corps  
2 will be organized, trained, and equipped;

3           (E) a description of how the Space Corps  
4 will exercise acquisition authorities;

5           (F) a description of how the Space Corps  
6 will coordinate with the United States Space  
7 Command, the Space Development Agency, and  
8 other space elements of the Armed Forces; and

9           (G) any other matters determined to be ap-  
10 propriate by the Secretary.

11       (b) *REPORT ON MILITARY PERSONNEL.—*

12           (1) *IN GENERAL.—*The Secretary of Defense shall  
13 submit to the congressional defense committees a re-  
14 port on the military personnel requirements of the  
15 Space Corps.

16           (2) *ELEMENTS.—*The report required under  
17 paragraph (1) shall include—

18           (A) a detailed plan setting forth—

19               (i) the proposed military personnel  
20 composition and structure of the Space  
21 Corps; and

22               (ii) plans for the transfer or reassign-  
23 ment of military personnel from the space  
24 elements of the Armed Forces to the Space  
25 Corps;

1           (B) the number of officer and enlisted per-  
2           sonnel to be transferred or reassigned to the  
3           Space Corps by functional area;

4           (C) a detailed description of the billet re-  
5           quirements for the Space Corps, including the  
6           staff organizational and rank structure; and

7           (D) the number of additional officer and en-  
8           listed billets that will be required for the Space  
9           Corps and a description of such billets.

10       (c) *REPORT ON CIVILIAN PERSONNEL.*—

11           (1) *IN GENERAL.*—The Secretary of Defense shall  
12           submit to the congressional defense committees a re-  
13           port on the civilian personnel requirements of the  
14           Space Corps.

15           (2) *ELEMENTS.*—The report required under  
16           paragraph (1) shall include—

17           (A) an assessment of the projected size of the  
18           civilian workforce of the Space Corps in fiscal  
19           year 2021 and in each fiscal year covered by the  
20           most recent future-years defense program sub-  
21           mitted to Congress under section 221 of title 10,  
22           United States Code;

23           (B) a detailed explanation of any projected  
24           changes to the size of the civilian workforce of the  
25           Space Corps from year-to-year; and

1           (C) a detailed plan for the transfer of civil-  
2           ian personnel from the space elements of the  
3           Armed Forces to the Space Corps.

4           (d) *REPORT ON TRANSFER OF FUNCTIONS AND AS-*  
5 *SETS.—*

6           (1) *IN GENERAL.—The Secretary of Defense shall*  
7 *submit to the congressional defense committees a re-*  
8 *port that includes a detailed plan for the transfer of*  
9 *the functions, assets, and obligations of the space ele-*  
10 *ments of the Armed Forces (including any property,*  
11 *records, installations, activities, facilities, agencies,*  
12 *and projects of such elements) to the Space Corps in*  
13 *accordance with section 922.*

14           (2) *ELEMENTS.—The report required under*  
15 *paragraph (1) shall include—*

16           (A) a detailed list of the functions and as-  
17           sets to be transferred;

18           (B) a justification for each transfer pro-  
19           posed to be made under subparagraph (A);

20           (C) the location and value of each item pro-  
21           posed to be transferred under subparagraph (A);  
22           and

23           (D) the date on which each item is expected  
24           to be transferred.

25           (e) *REPORT ON FUNDING REQUIREMENTS.—*

1           (1) *IN GENERAL.*—*The Secretary of Defense shall*  
2           *submit to the congressional defense committees a re-*  
3           *port on the funding requirements for the Space Corps.*

4           (2) *ELEMENTS.*—*The report required under*  
5           *paragraph (1) shall include a detailed estimate of the*  
6           *funding that will be required to establish the Space*  
7           *Corps and to conduct the activities and operations of*  
8           *the Corps, including estimated expenditures and pro-*  
9           *posed appropriations for each of fiscal years 2021*  
10          *through 2025 as follows:*

11           (A) *With respect to procurement accounts—*

12                   (i) *amounts displayed by account,*  
13                   *budget activity, line number, line item, and*  
14                   *line item title; and*

15                   (ii) *a description of the requirements*  
16                   *for each such amount specific to the Space*  
17                   *Corps.*

18           (B) *With respect to research, development,*  
19           *test, and evaluation accounts—*

20                   (i) *amounts displayed by account,*  
21                   *budget activity, line number, program ele-*  
22                   *ment, and program element title; and*

23                   (ii) *a description of the requirements*  
24                   *for each such amount specific to the Space*  
25                   *Corps.*

1           (C) *With respect to operation and maintenance*  
2 *accounts—*

3                 (i) *amounts displayed by account title,*  
4 *budget activity title, line number, and sub-*  
5 *activity group title; and*

6                 (ii) *a description of how such amounts*  
7 *will specifically be used.*

8           (D) *With respect to military personnel ac-*  
9 *counts—*

10                (i) *amounts displayed by account,*  
11 *budget activity, budget sub-activity, and*  
12 *budget sub-activity title; and*

13                (ii) *a description of the requirements*  
14 *for each such amount specific to the Space*  
15 *Corps.*

16           (E) *With respect to each project under mili-*  
17 *tary construction accounts (including with re-*  
18 *spect to unspecified minor military construction*  
19 *and amounts for planning and design), the coun-*  
20 *try, location, project title, and project amount by*  
21 *fiscal year.*

22           (F) *With respect to any expenditures and*  
23 *proposed appropriations not included the mate-*  
24 *rials submitted under subparagraphs (A)*  
25 *through (E), an explanation with a level of de-*

1           *tail equivalent to or greater than the level of de-*  
2           *tail provided in the future-years defense program*  
3           *submitted to Congress under section 221 of title*  
4           *10, United States Code.*

5           (3) *FORM OF REPORT.*—*The report required by*  
6           *paragraph (1) shall be submitted in unclassified form,*  
7           *but may include a classified annex.*

8           (f) *DEADLINE FOR SUBMITTAL.*—*Each of the reports*  
9           *required under subsections (a) through (e) shall be sub-*  
10          *mitted to the congressional defense committees not later*  
11          *than February 1, 2020.*

12   **SEC. 924. SPACE NATIONAL GUARD.**

13          *The Secretary of Defense may not transfer any per-*  
14          *sonnel or resources from any reserve components, including*  
15          *the National Guard, to the Space Corps established by sec-*  
16          *tion 921 until the date on which a Space National Guard*  
17          *of the United States has been established by law.*

18   **SEC. 925. EFFECTS ON MILITARY INSTALLATIONS.**

19          *Nothing in this part, or the amendments made by this*  
20          *part, shall be construed to authorize or require the reloca-*  
21          *tion of any facility, infrastructure, or military installation*  
22          *of the Air Force.*

1                   **PART II—OTHER SPACE MATTERS**

2   **SEC. 931. UNITED STATES SPACE COMMAND.**

3           (a) *RESTORATION OF GENERAL AUTHORITY FOR ES-*  
4 *TABLISHMENT OF UNIFIED COMMAND.—*

5               (1) *IN GENERAL.—Section 169 of title 10,*  
6 *United States Code, is repealed.*

7               (2) *CLERICAL AMENDMENT.—The table of sec-*  
8 *tions at the beginning of chapter 6 of title 10, United*  
9 *States Code, is amended by striking the item relating*  
10 *to section 169.*

11           (b) *CONFORMING AMENDMENT.—Section 2273a(d)(3)*  
12 *of title 10, United States Code, is amended by striking “The*  
13 *Commander of the United States Strategic Command, act-*  
14 *ing through the United States Space Command,” and in-*  
15 *serting “The Commander of the United States Space Com-*  
16 *mand, or, if no such command exists, the Commander of*  
17 *the United States Strategic Command,”.*

18           **TITLE X—GENERAL PROVISIONS**

19               **Subtitle A—Financial Matters**

20   **SEC. 1001. GENERAL TRANSFER AUTHORITY.**

21           (a) *AUTHORITY TO TRANSFER AUTHORIZATIONS.—*

22               (1) *AUTHORITY.—Upon determination by the*  
23 *Secretary of Defense that such action is necessary in*  
24 *the national interest, the Secretary may transfer*  
25 *amounts of authorizations made available to the De-*  
26 *partment of Defense in this division for fiscal year*

1       2019 between any such authorizations for that fiscal  
2       year (or any subdivisions thereof). Amounts of au-  
3       thorizations so transferred shall be merged with and  
4       be available for the same purposes as the authoriza-  
5       tion to which transferred.

6               (2) *LIMITATION.*—*Except as provided in para-*  
7       *graph (3), the total amount of authorizations that the*  
8       *Secretary may transfer under the authority of this*  
9       *section may not exceed \$1,000,000,000.*

10              (3) *EXCEPTION FOR TRANSFERS BETWEEN MILI-*  
11       *TARY PERSONNEL AUTHORIZATIONS.*—*A transfer of*  
12       *funds between military personnel authorizations*  
13       *under title IV shall not be counted toward the dollar*  
14       *limitation in paragraph (2).*

15              (b) *LIMITATIONS.*—*The authority provided by sub-*  
16       *section (a) to transfer authorizations—*

17                   (1) *may only be used to provide authority for*  
18       *items that have a higher priority than the items from*  
19       *which authority is transferred; and*

20                   (2) *may not be used to provide authority for an*  
21       *item that has been denied authorization by Congress.*

22              (c) *ADDITIONAL LIMITATION ON TRANSFERS FOR*  
23       *DRUG INTERDICTION AND COUNTER DRUG ACTIVITIES.*—  
24       *The authority provided by subsection (a) may not be used*

1 *to transfer any amount to Drug Interdiction and Counter*  
2 *Drug Activities, Defense-wide.*

3 (d) *EFFECT ON AUTHORIZATION AMOUNTS.—A trans-*  
4 *fer made from one account to another under the authority*  
5 *of this section shall be deemed to increase the amount au-*  
6 *thorized for the account to which the amount is transferred*  
7 *by an amount equal to the amount transferred.*

8 (e) *NOTICE TO CONGRESS.—The Secretary shall*  
9 *promptly notify Congress of each transfer made under sub-*  
10 *section (a).*

11 (f) *CERTIFICATION REQUIREMENT.—The authority to*  
12 *transfer any authorization under this section may not be*  
13 *used until the Secretary of Defense and the head of each*  
14 *entity affected by such transfer submits to the congressional*  
15 *defense committees certification in writing that—*

16 (1) *the amount transferred will be used for high-*  
17 *er priority items, based on unforeseen military re-*  
18 *quirements, than the items from which authority is*  
19 *transferred; and*

20 (2) *the amount transferred will not be used for*  
21 *any item for which funds have been denied authoriza-*  
22 *tion by Congress.*

1 **SEC. 1002. ADDITIONAL REQUIREMENTS FOR ANNUAL RE-**  
2 **PORT AND BRIEFING ON FINANCIAL IM-**  
3 **PROVEMENT AND AUDIT REMEDIATION PLAN.**

4 *Section 240b(b) of title 10, United States Code, is*  
5 *amended—*

6 *(1) in paragraph (1)(B)(iv), by adding at the*  
7 *end the following new subclause:*

8 *“(IV) A current accounting of the*  
9 *defense business systems of the Depart-*  
10 *ment of Defense that will be intro-*  
11 *duced, replaced, updated, modified, or*  
12 *retired in connection with the audit of*  
13 *the full financial statements of the De-*  
14 *partment, including a comprehensive*  
15 *roadmap that displays—*

16 *“(aa) in-service, retirement,*  
17 *and other pertinent dates for af-*  
18 *ected defense business systems;*

19 *“(bb) current cost-to-complete*  
20 *estimates for each affected system;*  
21 *and*

22 *“(cc) dependencies both be-*  
23 *tween the various defense business*  
24 *systems and between the introduc-*  
25 *tion, replacement, update, modi-*

1                    *fication, and retirement of such*  
2                    *systems.”;*

3                    *(2) in paragraph (2), by adding at the end the*  
4                    *following new sentence: “Such briefing shall also in-*  
5                    *clude a description of any updates to the defense busi-*  
6                    *ness systems roadmap referred to in paragraph*  
7                    *(1)(B)(iv)(IV).”;* and

8                    *(3) by amending paragraph (3) to read as fol-*  
9                    *lows:*

10                    *“(3) DEFINITIONS.—In this subsection:*

11                    *“(A) The term ‘critical capabilities’ means*  
12                    *the critical capabilities described in the Depart-*  
13                    *ment of Defense report titled ‘Financial Im-*  
14                    *provement and Audit Readiness (FIAR) Plan*  
15                    *Status Report’ and dated May 2016.*

16                    *“(B) The term ‘defense business system’ has*  
17                    *the meaning given such term in section*  
18                    *2222(i)(1)(A) of this title.”.*

19                    **SEC. 1003. FINANCIAL IMPROVEMENT AND AUDIT REMEDI-**  
20                    **ATION PLAN.**

21                    *(a) ELEMENTS OF ANNUAL REPORT.—Subsection*  
22                    *(b)(1)(B) of section 240b of title 10, United States Code,*  
23                    *is amended—*

24                    *(1) in clause (vii)—*

1           (A) by striking “or if less than 50 percent  
2           of the audit remediation services”; and

3           (B) by striking “and audit remediation ac-  
4           tivities”; and

5           (2) in clause (viii), by striking “or if less than  
6           25 percent of the audit remediation services”.

7           (b) SEMIANNUAL BRIEFINGS.—Subsection (b)(2) of  
8           such section is amended by striking “or audit remediation”.

9           (c) AUDIT REMEDIATION SERVICES.—Subsection (b) of  
10          such section is further amended—

11           (1) in paragraph (1)(B), by adding at the end  
12          the following new clauses:

13                   “(ix) If less than 50 percent of the  
14                   audit remediation services under contract,  
15                   as described in the briefing required under  
16                   paragraph (2)(B), are being performed by  
17                   individual professionals meeting the quali-  
18                   fications described in subsection (c), a de-  
19                   tailed description of the risks associated  
20                   with the risks of the acquisition strategy of  
21                   the Department with respect to conducting  
22                   audit remediation activities and an expla-  
23                   nation of how the strategy complies with the  
24                   policies expressed by Congress.

1                   “(x) If less than 25 percent of the audit  
2                   remediation services under contract, as de-  
3                   scribed in the briefing required under para-  
4                   graph (2)(B), are being performed by indi-  
5                   vidual professionals meeting the qualifica-  
6                   tions described in subsection (c), a written  
7                   certification that the staffing ratio complies  
8                   with commercial best practices and presents  
9                   no increased risk of delay in the Depart-  
10                  ment’s ability to achieve a clean audit opin-  
11                  ion.”; and

12                  (2) in paragraph (2)—

13                         (A) by striking “Not later” and inserting  
14                         “(A) Not later”; and

15                         (B) by adding at the end the following new  
16                         subparagraph:

17                                 “(B) Not later than January 31 and June 30  
18                                 each year, the Under Secretary of Defense (Comp-  
19                                 troller) and the comptrollers of the military depart-  
20                                 ments shall provide a briefing to the congressional de-  
21                                 fense committees on the status of the corrective action  
22                                 plan. Such briefing shall include both the absolute  
23                                 number and percentage of personnel performing the  
24                                 amount of audit remediation services being performed

1       *by professionals meeting the qualifications described*  
2       *in subsection (c).”.*

3       *(d) SELECTION OF AUDIT REMEDIATION SERVICES.—*  
4       *Such section is further amended by adding at the end the*  
5       *following new subsection:*

6           “(c) *SELECTION OF AUDIT REMEDIATION SERVICES.—*  
7       *The selection of audit remediation service providers shall*  
8       *be based, among other appropriate criteria, on qualifica-*  
9       *tions, relevant experience, and capacity to develop and im-*  
10       *plement corrective action plans to address internal control*  
11       *and compliance deficiencies identified during a financial*  
12       *statement or program audit.”.*

13       **SEC. 1004. REPORTING REQUIREMENTS RELATING TO DE-**  
14                               **PARTMENT OF DEFENSE AUDITS.**

15       *(a) ANNUAL REPORT.—*

16           (1) *IN GENERAL.—Chapter 9A of title 10, United*  
17       *States Code, is amended by adding at the end the fol-*  
18       *lowing new section:*

19       **“§240g. Annual report on auditable financial state-**  
20                               **ments**

21           “(a) *IN GENERAL.—Not later than January 30 of each*  
22       *year, the Secretary of Defense shall submit to the congres-*  
23       *sional defense committees a report ranking each of the mili-*  
24       *tary departments and Defense Agencies in order of how ad-*  
25       *vanced they are in achieving auditable financial statements*

1 *as required by law. In preparing the report, the Secretary*  
2 *shall seek to exclude information that is otherwise available*  
3 *in other reports to Congress.*

4       “(b) *BOTTOM QUARTILE.*—Not later than June 30 of  
5 *each year, the head of each of the military departments and*  
6 *Defense Agencies that were ranked in the bottom quartile*  
7 *of the report submitted under subsection (a) for that year*  
8 *shall submit to the congressional defense committees a re-*  
9 *port that includes the following information for that mili-*  
10 *tary department or Defense Agency:*

11               “(1) *A description of the material weaknesses of*  
12 *the military department or Defense Agency.*

13               “(2) *The underlying causes of such weaknesses.*

14               “(3) *A plan for remediating such weaknesses.*”.

15       “(2) *CLERICAL AMENDMENT.*—The table of sec-  
16 *tions at the beginning of such chapter is amended by*  
17 *adding at the end the following new item:*

“240g. *Annual report on auditable financial statements.*”.

18       “(b) *LIMITATION ON USE OF FUNDS.*—Of the amounts  
19 *authorized to be appropriated or otherwise made available*  
20 *by this Act for travel of persons for the head of a military*  
21 *department or Defense Agency described in subsection (b)*  
22 *of section 240g of title 10, United States Code, as added*  
23 *by subsection (a), for fiscal year 2020, not more than 80*  
24 *percent may be obligated or expended before the submittal*

1 *of the report required under that subsection for that mili-*  
2 *tary department or Defense Agency.*

3 *(c) PLAN FOR ACHIEVING UNMODIFIED AUDIT OPIN-*  
4 *ION ON CONSOLIDATED AUDIT.—*

5 *(1) REPORT REQUIRED.—Not later than 90 days*  
6 *after the date of the enactment of this Act, the Sec-*  
7 *retary of Defense shall submit to the congressional de-*  
8 *fense committees a report containing the plan of the*  
9 *Secretary for achieving an unmodified audit opinion*  
10 *of the Department of Defense-wide consolidated audit*  
11 *by not later than five years after the date of the en-*  
12 *actment of this Act.*

13 *(2) LIMITATION ON USE OF FUNDS.—Of the*  
14 *amounts authorized to be appropriated or otherwise*  
15 *made available by this Act for Operation and Mainte-*  
16 *nance, Defense-Wide, Office of the Secretary of De-*  
17 *fense, for Travel of Persons for fiscal year 2020, not*  
18 *more than 70 percent may be obligated or expended*  
19 *before the date on which the Secretary submits the re-*  
20 *port required under paragraph (1).*

1 **SEC. 1005. ANNUAL BUDGET JUSTIFICATION DISPLAY FOR**  
2 **SERVICE-COMMON AND OTHER SUPPORT AND**  
3 **ENABLING CAPABILITIES FOR SPECIAL OPER-**  
4 **ATIONS FORCES.**

5 (a) *IN GENERAL.*—Chapter 9 of title 10, United States  
6 Code, is amended by inserting after section 225 the fol-  
7 lowing new section:

8 **“§226. Special operations forces: display of service-**  
9 **common and other support and enabling**  
10 **capabilities**

11 “(a) *IN GENERAL.*—The Secretary shall include, in the  
12 budget materials submitted to Congress under section 1105  
13 of title 31 for fiscal year 2021 and any subsequent fiscal  
14 year, a consolidated budget justification display showing  
15 service-common and other support and enabling capabili-  
16 ties for special operations forces requested by a military  
17 service or Defense Agency. Such budget justification display  
18 shall include any amount for service-common or other capa-  
19 bility development and acquisition, training, operations,  
20 pay, base operations sustainment, and other common serv-  
21 ices and support.

22 “(b) *SERVICE-COMMON AND OTHER SUPPORT AND EN-*  
23 *ABLING CAPABILITIES.*—In this section, the term ‘service-  
24 common and other support and enabling capabilities’  
25 means capabilities provided in support of special oper-

1 *ations that are not reflected in Major Force Program-11*  
2 *or designated as special operations forces-peculiar.”.*

3 *(b) CLERICAL AMENDMENT.—The table of sections at*  
4 *the beginning of such chapter is amended by inserting after*  
5 *the item relating to section 225 the following new item:*

*“226. Special operations forces: display of service-common programs and activi-*  
*ties.”.*

6 **SEC. 1006. DETERMINATION OF BUDGETARY EFFECTS.**

7 *The budgetary effects of this Act, for the purpose of*  
8 *complying with the Statutory Pay-As-You-Go Act of 2010,*  
9 *shall be determined by reference to the latest statement titled*  
10 *“Budgetary Effects of PAYGO Legislation” for this Act,*  
11 *submitted for printing in the Congressional Record by the*  
12 *Chairman of the House Budget Committee, provided that*  
13 *such statement has been submitted prior to the vote on pas-*  
14 *sage.*

15 **SEC. 1007. INDEPENDENT PUBLIC ACCOUNTANT AUDIT OF**  
16 **FINANCIAL SYSTEMS OF THE DEPARTMENT**  
17 **OF DEFENSE.**

18 *The Secretary of Defense shall ensure that each major*  
19 *implementation of, or modification to, a financial system*  
20 *of the Department of Defense is reviewed by an independent*  
21 *public accountant to validate that such financial system*  
22 *will meet any applicable Federal requirements.*

1 **Subtitle B—Counterdrug Activities**

2 **SEC. 1011. MODIFICATION OF AUTHORITY TO PROVIDE SUP-**  
 3 **PORT TO OTHER AGENCIES FOR**  
 4 **COUNTERDRUG ACTIVITIES AND ACTIVITIES**  
 5 **TO COUNTER TRANSNATIONAL ORGANIZED**  
 6 **CRIME.**

7 (a) *TYPES OF SUPPORT.*—Paragraph (7) of subsection  
 8 (b) of section 284 of title 10, United States Code, is amend-  
 9 ed—

10 (1) *by striking “and fences”; and*

11 (2) *by striking “to block” and inserting “along”.*

12 (b) *CONGRESSIONAL NOTIFICATION.*—Subsection  
 13 (h)(1) of such section is amended—

14 (1) *by redesignating subparagraphs (A) and (B)*  
 15 *as subparagraphs (B) and (C), respectively; and*

16 (2) *by inserting before subparagraph (B), as so*  
 17 *redesignated, the following new subparagraph (A):*

18 “(A) *In case of support for a purpose de-*  
 19 *scribed in subsection (b)—*

20 “(i) *an identification of the recipient*  
 21 *of the support;*

22 “(ii) *a description of the support pro-*  
 23 *vided;*

1           “(iii) a description of the sources and  
2 amounts of funds used to provide such sup-  
3 port;

4           “(iv) a description of the amount of  
5 funds obligated to provide such support;

6           “(v) an assessment of the efficacy and  
7 cost-effectiveness of such support in advanc-  
8 ing the objectives and strategy of the depart-  
9 ment or agency to which the support will be  
10 provided;

11           “(vi) any document describing a re-  
12 quest for assistance from any other depart-  
13 ment or agency of the United States and  
14 any response to such a request from another  
15 department or agency of the United States  
16 to which support will be provided; and

17           “(vii) in the case of any support for a  
18 purpose described under subsection (b)(7),  
19 metrics and analysis that establish that an  
20 area is a drug smuggling corridor.”.

1 **SEC. 1012. TECHNICAL CORRECTION AND EXTENSION OF**  
2 **REPORTING REQUIREMENT REGARDING EN-**  
3 **HANCEMENT OF INFORMATION SHARING AND**  
4 **COORDINATION OF MILITARY TRAINING BE-**  
5 **TWEEN DEPARTMENT OF HOMELAND SECU-**  
6 **RITY AND DEPARTMENT OF DEFENSE.**

7 *Section 1014 of the National Defense Authorization*  
8 *Act for Fiscal Year 2017 (Public Law 114–328) is amend-*  
9 *ed—*

10 *(1) by striking “section 371 of title 10, United*  
11 *States Code” each place it appears and inserting*  
12 *“section 271 of title 10, United States Code”; and*

13 *(2) in subsection (d)(3) by striking “January 31,*  
14 *2020” and inserting “December 31, 2022”.*

15 **SEC. 1013. REPEAL OF SECRETARY OF DEFENSE REVIEW OF**  
16 **CURRICULA AND PROGRAM STRUCTURES OF**  
17 **NATIONAL GUARD COUNTERDRUG SCHOOLS.**

18 *Section 901 of the Office of National Drug Control Pol-*  
19 *icy Reauthorization Act of 2006 (Public Law 109–469; 32*  
20 *U.S.C. 112 note) is amended—*

21 *(1) by striking subsection (e); and*

22 *(2) by redesignating subsections (f) through (h)*  
23 *as subsections (e) through (g), respectively.*

1           **Subtitle C—Naval Vessels and**  
2                           **Shipyards**

3   **SEC. 1021. TRANSPORTATION BY SEA OF SUPPLIES FOR THE**  
4                           **ARMED FORCES AND DEFENSE AGENCIES.**

5           *Section 2631 of title 10, United States Code, is amend-*  
6 *ed—*

7                   (1) *in the first sentence of subsection (a), by in-*  
8 *serting “or for a Defense Agency” after “Marine*  
9 *Corps”; and*

10                   (2) *in subsection (b)—*

11                           (A) *by redesignating paragraphs (2) and*

12                           (3) *as paragraphs (3) and (4), respectively;*

13                           (B) *by inserting after paragraph (1) the fol-*  
14 *lowing new paragraph (2):*

15                   “(2) *Before entering into a contract for the transpor-*  
16 *tation by sea of fuel products under this section, the Sec-*  
17 *retary shall provide a minimum variance of three days on*  
18 *the shipment date.”; and*

19                           (C) *in paragraph (4), as redesignated by*

20                           subparagraph (A), *by striking “the requirement*  
21 *described in paragraph (1)” and insert “a re-*

22 *quirement under paragraph (1) or (2)”.*

1 **SEC. 1022. USE OF NATIONAL DEFENSE SEALIFT FUND FOR**  
2 **PROCUREMENT OF TWO USED VESSELS.**

3 *Pursuant to section 2218(f)(3) of title 10, United*  
4 *States Code, and using amounts authorized to be appro-*  
5 *priated for Operation and Maintenance, Navy, for fiscal*  
6 *year 2020, the Secretary of the Navy shall seek to enter into*  
7 *a contract for the procurement of two used vessels.*

8 **SEC. 1023. FORMAL SCHOOLHOUSE TRAINING FOR SHIP-**  
9 **BOARD SYSTEM PROGRAMS OF RECORD.**

10 *(a) IN GENERAL.—The Secretary of the Navy shall en-*  
11 *sure that there is a formal schoolhouse available at which*  
12 *training is provided in any shipboard system that is pro-*  
13 *gram of record on Navy surface vessels.*

14 *(b) TIMELINE FOR IMPLEMENTATION.—*

15 *(1) CURRENT PROGRAMS.—In the case of any*  
16 *shipboard system program of record that is in use as*  
17 *of the date of the enactment of this Act for which no*  
18 *formal schoolhouse is available, the Secretary shall en-*  
19 *sure that such a schoolhouse is available for the provi-*  
20 *sion of training in such program by not later than*  
21 *12 months after the date of the enactment of this Act.*

22 *(2) FUTURE PROGRAMS.—In the case of any*  
23 *shipboard system program of record that is first used*  
24 *after the date of the enactment of this Act, the Sec-*  
25 *retary shall ensure that a formal schoolhouse is estab-*  
26 *lished for the provision of training in such program*

1        *by not later than 12 months after the date on which*  
2        *the shipboard system program of record is first used.*

3        **SEC. 1024. REPORT ON SHIPBUILDER TRAINING AND THE**  
4        **DEFENSE INDUSTRIAL BASE.**

5        *Not later than 180 days after the date of the enactment*  
6        *of this Act, the Secretary of Defense shall submit to the*  
7        *Committees on Armed Services of the Senate and House of*  
8        *Representatives a report on shipbuilder training and hiring*  
9        *requirements necessary to achieve the Navy's 30-year ship-*  
10       *building plan and to maintain the shipbuilding readiness*  
11       *of the defense industrial base. Such report shall include each*  
12       *of the following:*

13                (1) *An analysis and estimate of the time and in-*  
14                *vestment required for new shipbuilders to gain pro-*  
15                *ficiency in particular shipbuilding occupational spe-*  
16                *cialties, including detailed information about the oc-*  
17                *cupational specialty requirements necessary for con-*  
18                *struction of naval surface ship and submarine classes*  
19                *to be included in the Navy's 30-year shipbuilding*  
20                *plan.*

21                (2) *An analysis of the age demographics and oc-*  
22                *cupational experience level (measured in years of ex-*  
23                *perience) of the shipbuilding defense industrial work-*  
24                *force.*

1           (3) *An analysis of the potential time and invest-*  
 2           *ment challenges associated with developing and re-*  
 3           *taining shipbuilding skills in organizations that lack*  
 4           *intermediate levels of shipbuilding experience.*

5           (4) *Recommendations concerning how to address*  
 6           *shipbuilder training during periods of demographic*  
 7           *transition, including whether emerging technologies,*  
 8           *such as augmented reality, may aid in new ship-*  
 9           *builder training.*

10          (5) *Recommendations concerning how to encour-*  
 11          *age young adults to enter the defense shipbuilding in-*  
 12          *dustry and to develop the skills necessary to support*  
 13          *the shipbuilding defense industrial base.*

## 14           ***Subtitle D—Counterterrorism***

### 15   ***SEC. 1031. EXTENSION OF AUTHORITY FOR JOINT TASK*** 16                           ***FORCES TO PROVIDE SUPPORT TO LAW EN-*** 17                           ***FORCEMENT AGENCIES CONDUCTING*** 18                           ***COUNTER-TERRORISM ACTIVITIES.***

19          (a) *EXTENSION.*—*Subsection (b) of section 1022 of the*  
 20          *National Defense Authorization Act for Fiscal Year 2004*  
 21          *(Public Law 108–136; 10 U.S.C. 271 note) is amended by*  
 22          *striking “2020” and inserting “2022”.*

23          (b) *TECHNICAL CORRECTIONS.*—*Subsection (e) of such*  
 24          *section is amended—*

1           (1) *in paragraph (1), by inserting a period at*  
2           *the end; and*

3           (2) *by adding at the end the following paragraph*  
4           (2):

5           “(2) *For purposes of applying the definition of*  
6           *transnational organized crime under paragraph (1) to this*  
7           *section, the term ‘illegal means’, as it appears in such defi-*  
8           *niton, includes the trafficking of money, human traf-*  
9           *ficking, illicit financial flows, illegal trade in natural re-*  
10           *sources and wildlife, trade in illegal drugs and weapons,*  
11           *and other forms of illegal means determined by the Sec-*  
12           *retary of Defense.”.*

13           **SEC. 1032. PROHIBITION ON USE OF FUNDS FOR TRANSFER**  
14                                   **OR RELEASE OF INDIVIDUALS DETAINED AT**  
15                                   **UNITED STATES NAVAL STATION, GUANTA-**  
16                                   **NAMO BAY, CUBA, TO CERTAIN COUNTRIES.**

17           *No amounts authorized to be appropriated or otherwise*  
18           *made available for the Department of Defense may be used*  
19           *during the period beginning on the date of the enactment*  
20           *of this Act and ending on December 31, 2020, to transfer,*  
21           *release, or assist in the transfer or release of any individual*  
22           *detained in the custody or under the control of the Depart-*  
23           *ment of Defense at United States Naval Station, Guanta-*  
24           *namo Bay, Cuba, to the custody or control of any country,*  
25           *or any entity within such country, as follows:*



1       *States citizen, pursuant to the law of war or a pro-*  
2       *ceeding under chapter 47A of title 10, United States*  
3       *Code, at United States Naval Station, Guantanamo*  
4       *Bay, Cuba; or*

5               *(2) transfer or provide assistance relating to the*  
6       *transfer of any individual, including any United*  
7       *States citizen, for the purpose of detaining such indi-*  
8       *vidual pursuant to the law of war or a proceeding*  
9       *under chapter 47A of title 10, United States Code, at*  
10       *United States Naval Station, Guantanamo Bay,*  
11       *Cuba.*

12       *(b) EXCEPTION.—The prohibition in subsection (a)*  
13       *shall not apply to an individual who is or was detained*  
14       *pursuant to the law of war or a Military Commissions Act*  
15       *proceeding on or after May 2, 2018, at United States Naval*  
16       *Station, Guantanamo Bay, Cuba, by the Department of De-*  
17       *fense.*

18       *(c) DISPOSITION PLAN.—Not later than 60 days after*  
19       *the date of the enactment of this Act, the Attorney General,*  
20       *in consultation with the Secretary of Defense, shall submit*  
21       *to the congressional defense committees a plan identifying*  
22       *a disposition, other than continued law of war detention*  
23       *at United States Naval Station, Guantanamo Bay, Cuba,*  
24       *for each individual detained at United States Naval Sta-*

1 *tion, Guantanamo Bay, Cuba, as of the date of the enact-*  
2 *ment of this Act.*

3 **SEC. 1034. SENSE OF CONGRESS REGARDING THE PROVI-**  
4 **SION OF MEDICAL CARE TO INDIVIDUALS DE-**  
5 **TAINED AT UNITED STATES NAVAL STATION,**  
6 **GUANTANAMO BAY, CUBA.**

7 *(a) FINDINGS.—Congress makes the following findings:*

8 *(1) The individuals detained at United States*  
9 *Naval Station, Guantanamo Bay, Cuba, are aging,*  
10 *and such individuals are increasingly subject to a*  
11 *number of health conditions exacerbated by age and*  
12 *the circumstances of their cases.*

13 *(2) Expeditionary medical treatment of individ-*  
14 *uals detained at United States Naval Station, Guan-*  
15 *tanamo Bay, Cuba, is logistically challenging and in-*  
16 *creasingly costly, especially treatment related to com-*  
17 *plex ailments that may become exacerbated with age.*

18 *(3) Medical care at United States Naval Station,*  
19 *Guantanamo Bay, Cuba, is likely to become an in-*  
20 *creasing challenge for the United States Government.*

21 *(4) Medical challenges at United States Naval*  
22 *Station, Guantanamo Bay, Cuba, also cause difficul-*  
23 *ties affecting the functions and processes of the mili-*  
24 *tary commissions and periodic review boards.*

1       **(b) SENSE OF CONGRESS.**—*It is the sense of Congress*  
2 *that—*

3           **(1)** *the United States has an ongoing obligation*  
4 *to provide medical care to individuals detained at*  
5 *United States Naval Station, Guantanamo Bay,*  
6 *Cuba, meeting appropriate standards of care; and*

7           **(2)** *the Secretary of Defense should take into ac-*  
8 *count the standards of care provided at other relevant*  
9 *facilities, including those administered by the Federal*  
10 *Bureau of Prisons, in determining the policies of the*  
11 *Department of Defense regarding the provision of*  
12 *medical care to individuals detained at United States*  
13 *Naval Station, Guantanamo Bay, Cuba.*

14 **SEC. 1035. INDEPENDENT ASSESSMENT ON GENDER AND**  
15 **COUNTERING VIOLENT EXTREMISM.**

16       **(a) IN GENERAL.**—*The Secretary of Defense shall seek*  
17 *to enter into a contract with a nonprofit entity or a feder-*  
18 *ally funded research and development center independent*  
19 *of the Department of Defense to conduct research and anal-*  
20 *ysis on the intersection of gender and violent extremism and*  
21 *terrorism.*

22       **(b) ELEMENTS.**—*The research and analysis conducted*  
23 *under subsection (a) shall include research and analysis of*  
24 *the following:*

1           (1) *The root and proximate causes of women’s*  
2           *participation in terrorist and violent extremist orga-*  
3           *nizations.*

4           (2) *Ways for the Department of Defense to en-*  
5           *gage women and girls who are vulnerable to extremist*  
6           *and terrorist behavior.*

7           (3) *Ways women and girls can assist the Armed*  
8           *Forces and partner military organizations in identi-*  
9           *fying individuals of concern.*

10          (4) *The intersection of violent extremism and*  
11          *terrorism and the following:*

12                 (A) *Gender-based violence.*

13                 (B) *Women’s empowerment at the household*  
14                 *level, such as property and inheritance rights,*  
15                 *bride-price and dowry, and the level of societal*  
16                 *sanction for the killing or harming of women.*

17                 (C) *Adolescent girls’ empowerment, such as*  
18                 *the level of early, child, and forced marriage,*  
19                 *and of girls’ access to secondary education.*

20          (5) *Best practices for the Armed Forces to sup-*  
21          *port women preventing and countering violent extre-*  
22          *mism and terrorism.*

23          (6) *Any other matters the Secretary of Defense*  
24          *determines to be appropriate.*

1           (c) *UTILIZATION.*—*The Secretary of Defense shall uti-*  
2 *lize the results of the research conducted under subsection*  
3 *(a) to inform each geographic combatant command’s strat-*  
4 *egy report and individual country strategy reports, where*  
5 *appropriate.*

6           (d) *REPORTS.*—

7                 (1) *REPORT TO SECRETARY.*—*Not later than one*  
8 *year after the date of the enactment of this Act, the*  
9 *nonprofit entity or federally funded research and de-*  
10 *velopment center with which the Secretary of Defense*  
11 *enters into contract under subsection (a) shall submit*  
12 *to the Secretary of Defense a report that contains the*  
13 *assessment required by subsection (a).*

14                 (2) *REPORT TO CONGRESS.*—*Not later than two*  
15 *years after the date of the enactment of this Act, the*  
16 *Secretary of Defense shall submit to the congressional*  
17 *defense committees a report on the results of research*  
18 *conducted under subsection (a).*

1           ***Subtitle E—Miscellaneous***  
2           ***Authorities and Limitations***

3   ***SEC. 1041. SCHEDULING OF DEPARTMENT OF DEFENSE EX-***  
4                   ***ECUTIVE AIRCRAFT CONTROLLED BY SECRE-***  
5                   ***TARIES OF MILITARY DEPARTMENTS.***

6           (a) *IN GENERAL.*—Chapter 2 of title 10, United States  
7 Code, is amended by adding at the end the following new  
8 section:

9   ***“§ 120. Department of Defense executive aircraft con-***  
10                   ***trolled by Secretaries of military depart-***  
11                   ***ments***

12           “(a) *IN GENERAL.*—The Secretary of Defense shall en-  
13 sure that the Chief of the Air Force Special Air Mission  
14 Office is given the responsibility for scheduling all Depart-  
15 ment of Defense executive aircraft controlled by the Secre-  
16 taries of the military departments.

17           “(b) *RESPONSIBILITIES.*—(1) The Secretary of each of  
18 the military departments shall ensure that there is represen-  
19 tation from each of the armed forces within the Air Force  
20 Special Air Mission Office to provide for daily management  
21 and scheduling of the aircraft controlled by that military  
22 department.

23           “(2) The Secretary of Defense shall be responsible for  
24 resolving conflicts and arbitrating the allocation of aircraft  
25 based on demand and priority.

1       “(c) *LIMITATIONS.*—(1) *The Secretary of Defense may*  
 2 *not establish a new command and control organization to*  
 3 *support aircraft controlled by the Secretary of a military*  
 4 *department.*

5       “(2) *No aircraft controlled by the Secretary of a mili-*  
 6 *tary department may be permanently stationed at any lo-*  
 7 *cation without required users.*

8       “(d) *DEFINITIONS.*—*In this section:*

9               “(1) *The term ‘required use traveler’ has the*  
 10 *meaning given such term in Department of Defense*  
 11 *directive 4500.56, as in effect on the date of the enact-*  
 12 *ment of this section.*

13               “(2) *The term ‘executive aircraft’ has the mean-*  
 14 *ing given such term in Department of Defense direc-*  
 15 *tive 4500.43, as in effect on the date of the enactment*  
 16 *of this section.”.*

17       “(b) *CLERICAL AMENDMENT.*—*The table of sections at*  
 18 *the beginning of such chapter is amended by adding at the*  
 19 *end the following new item:*

“120. *Department of Defense executive aircraft controlled by Secretaries of mili-*  
*tary departments.”.*

20 **SEC. 1042. EXPLOSIVE ORDNANCE DEFENSE DISPOSAL PRO-**  
 21 **GRAM.**

22       “(a) *ROLES, RESPONSIBILITIES, AND AUTHORITIES.*—  
 23 *Subsection (b) of section 2284 of title 10, United States*  
 24 *Code, is amended—*

1           (1) *in paragraph (1)—*

2                   (A) *in subparagraph (B), by inserting*  
3           *“and” after the semicolon;*

4                   (B) *in subparagraph (C),*

5                           (i) *by striking “joint program execu-*  
6                           *tive officer who” and inserting “training*  
7                           *and technology program that”;*

8                           (ii) *by inserting “, provides common*  
9                           *individual training,” after “explosive ord-*  
10                           *nance disposal”;*

11                           (iii) *by striking “and procurement”;*

12                           (iv) *by inserting “for common tools”*  
13                           *after “activities”;*

14                           (v) *by striking “and combatant com-*  
15                           *mands”;* *and*

16                           (vi) *by inserting “and” after the semi-*  
17                           *colon; and*

18                   (C) *by striking subparagraphs (D) and (E);*

19           (2) *in paragraph (2), by striking “such as weap-*  
20           *on systems, manned and unmanned vehicles and plat-*  
21           *forms, cyber and communication equipment, and the*  
22           *integration of explosive ordnance disposal sets, kits*  
23           *and outfits and explosive ordnance disposal tools,*  
24           *equipment, sets, kits, and outfits developed by the de-*  
25           *partment.” and inserting “; and”; and*

1           (3) *by adding at the end the following new para-*  
2 *graph:*

3           “(3) *the Secretary of the Army shall designate*  
4 *an Army explosive ordnance disposal-qualified gen-*  
5 *eral officer to serve as the co-chair of the Department*  
6 *of Defense explosive ordnance disposal defense pro-*  
7 *gram.*”.

8           (b) *DEFINITIONS.—Such section is further amended by*  
9 *adding at the end the following new subsection:*

10          “(d) *DEFINITIONS.—In this section:*

11           “(1) *The term ‘explosive ordnance’ has the mean-*  
12 *ing given such term in section 283(d) of this title.*

13           “(2) *The term ‘explosive ordnance disposal’*  
14 *means the detection, identification, on-site evaluation,*  
15 *rendering safe, exploitation, recovery, and final dis-*  
16 *posal of explosive ordnance.*”.

17 **SEC. 1043. NOTIFICATION ON THE PROVISION OF DEFENSE**  
18 **SENSITIVE SUPPORT.**

19          *Section 1055(b) of the National Defense Authorization*  
20 *Act for Fiscal Year 2017 (Public Law 114–328; 10 U.S.C.*  
21 *113 note) is amended—*

22           (1) *in paragraph (2)—*

23           (A) *by redesignating subparagraph (C) as*  
24 *subparagraph (E); and*

1           (B) by inserting after subparagraph (B) the  
2 following new subparagraphs:

3           “(C) A description of the required duration  
4 of the support.

5           “(D) A description of the initial costs for  
6 the support.”; and

7           (2) by adding at the end the following new para-  
8 graph:

9           “(5) *SUSTAINMENT COSTS.*—If the Secretary de-  
10 termines that sustainment costs will be incurred as a  
11 result of the provision of defense sensitive support, the  
12 Secretary, not later than 72 hours after the initial  
13 provision of such support, shall certify to the congress-  
14 sional defense committees (and the congressional intel-  
15 ligence committees with respect to matters relating to  
16 members of the intelligence community) that such  
17 sustainment costs will not interfere with the ability of  
18 the Department to execute operations, accomplish  
19 mission objectives, and maintain readiness.”.

20 **SEC. 1044. MODIFICATION AND TECHNICAL CORRECTION**  
21 **OF AUTHORITY FOR DEPLOYMENT OF MEM-**  
22 **BERS OF THE ARMED FORCES TO THE SOUTH-**  
23 **ERN LAND BORDER OF THE UNITED STATES.**

24           (a) *AUTHORITY.*—Subsection (a) of section 1059 of the  
25 *National Defense Authorization Act for Fiscal Year 2016*

1 *(Public Law 114–92; 129 Stat. 986; 10 U.S.C. 271 note*  
2 *prec.) is amended to read as follows:*

3 “(a) *AUTHORITY.—*

4 “(1) *IN GENERAL.—The Secretary of Defense*  
5 *may provide assistance to United States Customs and*  
6 *Border Protection for purposes of increasing ongoing*  
7 *efforts to secure the southern land border of the*  
8 *United States in accordance with the requirements of*  
9 *this section.*

10 “(2) *CERTIFICATION REQUIREMENT.—If the Sec-*  
11 *retary of Defense provides assistance under paragraph*  
12 *(1), not later than 30 days before the provision of*  
13 *such assistance, the Secretary shall submit to the*  
14 *Committees on Armed Services of the Senate and*  
15 *House of Representatives certification, in writing,*  
16 *that—*

17 “(A) *the provision of the assistance will not*  
18 *negatively affect military training, operations,*  
19 *readiness, or other military requirement, includ-*  
20 *ing the readiness of the National Guard and re-*  
21 *serve components; and*

22 “(B) *the tasks associated with the support*  
23 *provided align with the mission or occupational*  
24 *specialty of any members of the Armed Forces or*  
25 *units of the Armed Forces that are deployed; and*

1           “(C) any task associated with the support is  
2           inherently governmental and cannot be per-  
3           formed by a contractor.

4           “(3) NOTIFICATION REQUIREMENT.—Not later  
5           than 30 days before the deployment of any member of  
6           the Armed Forces or unit of the Armed Forces to the  
7           southern land border of the United States in support  
8           United States Customs and Border Protection pursu-  
9           ant to this section or any other provision of law, the  
10          Secretary of Defense shall provide to the Committees  
11          on Armed Forces of the Senate and House of Rep-  
12          resentatives notice of such deployment.”.

13          (b) SUPPORT.—Subsection (e) of such section is  
14          amended—

15                 (1) by striking “Of the amounts authorized to be  
16                 appropriated for the Department of Defense by this  
17                 Act, the” and inserting “The”;

18                 (2) by striking “use up to \$75,000,000 to”; and

19                 (3) by inserting “on a reimbursable basis” after  
20                 “subsection (a)”.

21          (c) REPORTING REQUIREMENTS.—Subsection (f) of  
22          such section is amended to read as follows:

23                 “(f) REPORTS.—

24                         “(1) REPORT REQUIRED.—Not later than 30  
25                         days after the date on which any member of the

1 *Armed Forces is deployed along the southern land*  
2 *border of the United States at the request of the Sec-*  
3 *retary of Homeland Security, and every 90 days*  
4 *thereafter until no members are so deployed, the Sec-*  
5 *retary of Defense shall submit to the Committee on*  
6 *Armed Services and the Committee on Homeland Se-*  
7 *curity and Governmental Affairs of the Senate and*  
8 *the Committee on Armed Services and the Committee*  
9 *on Homeland Security of the House of Representa-*  
10 *tives a report that includes, for both the period cov-*  
11 *ered by the report and the total period of the deploy-*  
12 *ment, each of the following:*

13 *“(A) An identification of each unit of the*  
14 *Armed Forces so deployed, including for each*  
15 *such unit—*

16 *“(i) the duty station or location to*  
17 *which the unit is assigned;*

18 *“(ii) the unit designation;*

19 *“(iii) the size of the unit; and*

20 *“(iv) whether any personnel in the*  
21 *unit deployed under section 12302 of title*  
22 *10, United States Code.*

23 *“(B) An identification of any training exer-*  
24 *cises that were planned prior to such deployment*

1           *that included deployed units and were planned*  
2           *to be executed after the date of the deployment.*

3           “(C) *For each unit so deployed, the readi-*  
4           *ness rating of the unit before deployment and 15*  
5           *days after the last day of such deployment.*

6           “(D) *The projected length of the deployment*  
7           *and any special pay and incentives for which*  
8           *deployed personnel may qualify during the de-*  
9           *ployment.*

10          “(E) *A description of any specific pre-de-*  
11          *ployment training provided to any individual or*  
12          *unit before being so deployed, including the loca-*  
13          *tion and duration of any such training.*

14          “(F) *A description of the rules and addi-*  
15          *tional guidance applicable to the deployment, in-*  
16          *cluding—*

17                 “(i) *any special instructions provided*  
18                 *to units so deployed prior to deployment;*

19                 “(ii) *the standing rules for the use of*  
20                 *force for deployed personnel; and*

21                 “(iii) *whether personnel carry assigned*  
22                 *weapons and are issued ammunition.*

23          “(G) *A description of the life support condi-*  
24          *tions, including living quarters and food ration*

1           *cycles, associated with such deployment and as-*  
2           *sociated costs.*

3           “(H) *A map indicating the locations where*  
4           *units so deployed are housed.*

5           “(I) *A map indicating the locations where*  
6           *units so deployed are conducting their assigned*  
7           *mission and an explanation for the choice of*  
8           *such locations.*

9           “(J) *A description of the specific missions*  
10          *and tasks, by location, that are assigned to the*  
11          *members of the Armed Forces who are so de-*  
12          *ployed.*

13          “(K) *The total amount of funds obligated or*  
14          *expended to provide support along the southern*  
15          *border of the United States, including costs asso-*  
16          *ciated with personnel (set forth separately from*  
17          *any special pay and allowances), transportation,*  
18          *operations, and any materials used in support of*  
19          *any such deployment or support provided.*

20          “(L) *An assessment of the ongoing efficacy*  
21          *and cost-effectiveness of the provision of such as-*  
22          *sistance, including a comparison to the execution*  
23          *by United States Customs and Border Protec-*  
24          *tion, the strategy and recommendations of the*  
25          *Secretary to address the challenges on the south-*

1            *ern border of the United States and to enhance*  
2            *the effectiveness of such assistance, and a plan to*  
3            *transition the functions performed by the mem-*  
4            *bers of the Armed Forces pursuant to such assist-*  
5            *ance.*

6            *“(M) The justification of United States Cus-*  
7            *toms and Border Protection determining each lo-*  
8            *cation where the Department of Defense provides*  
9            *support under this section and any actions taken*  
10           *by the Department of Homeland Security to*  
11           *complete the mission or tasks before requesting*  
12           *support from the Department of Defense and de-*  
13           *termining when support from the Department of*  
14           *Defense is needed, including—*

15           *“(i) copies of any relevant documents*  
16           *that describe the factors taken into consider-*  
17           *ation in requesting support from the De-*  
18           *partment of Defense;*

19           *“(ii) the analysis that informs the*  
20           *placement of members of the Armed Forces*  
21           *along the southern land border of the United*  
22           *States; and*

23           *“(iii) any memorandum, including re-*  
24           *quests for assistance and responses to such*  
25           *requests, shared between the Department of*

1           *Homeland Security and the Department of*  
2           *Defense regarding the need for the deploy-*  
3           *ment of members of the Armed Forces along*  
4           *the southern land border of the United*  
5           *States.*

6           “(2) *FORM OF REPORT.*—*Each report submitted*  
7           *under this subsection shall be submitted in unclassi-*  
8           *fied form and without any designation relating to*  
9           *dissemination control, but may include a classified*  
10          *annex.”.*

11          “(d) *TERMINATION OF AUTHORITY.*—*Such section is*  
12          *further amended by adding at the end the following new*  
13          *subsection:*

14               “(g) *TERMINATION.*—*The authority under this section*  
15          *shall terminate on September 30, 2023.”.*

16          “(e) *CLASSIFICATION.*—*The Law Revision Counsel is*  
17          *directed to place this section in a note following section 284*  
18          *of title 10, United States Code.*

19          **SEC. 1045. LIMITATION ON USE OF FUNDS FOR THE INAC-**  
20                               **TIVATION OF ARMY WATERCRAFT UNITS.**

21               *None of the funds authorized to be appropriated by this*  
22          *Act or otherwise made available for fiscal year 2020 may*  
23          *be obligated or expended for the inactivation of any Army*  
24          *watercraft unit until the Secretary of Defense submits to*  
25          *Congress certification that—*

1           (1) *the Secretary has completed the Army*  
2 *Watercraft Requirements Review;*

3           (2) *the Secretary has entered into a contract*  
4 *with a federally funded research and development cor-*  
5 *poration for the review of the ability of the Army to*  
6 *meet the watercraft requirements of the combatant*  
7 *commanders; and*

8           (3) *the federally funded research and develop-*  
9 *ment corporation has completed such review and vali-*  
10 *dated the findings of such review.*

11 **SEC. 1046. PROHIBITION ON USE OF FUNDS FOR CON-**  
12 **STRUCTION OF A WALL, FENCE, OR OTHER**  
13 **PHYSICAL BARRIER ALONG THE SOUTHERN**  
14 **BORDER OF THE UNITED STATES.**

15           (a) *PROHIBITION.*—*National defense funds may not be*  
16 *obligated, expended, or otherwise used to design or carry*  
17 *out a project to construct, replace, or modify a wall, fence,*  
18 *or other physical barrier along the international border be-*  
19 *tween the United States and Mexico.*

20           (b) *NATIONAL DEFENSE FUNDS DEFINED.*—*In this*  
21 *section, the term “national defense funds” means—*

22           (1) *amounts authorized to be appropriated for*  
23 *any purpose in this division or authorized to be ap-*  
24 *propriated in division A of any National Defense Au-*  
25 *thorization Act for any of fiscal years 2015 through*

1       2019, including any amounts of such an authoriza-  
2       tion made available to the Department of Defense and  
3       transferred to another authorization by the Secretary  
4       of Defense pursuant to transfer authority available to  
5       the Secretary; and

6               (2) funds appropriated in any Act pursuant to  
7       an authorization of appropriations described in para-  
8       graph (1).

9       **SEC. 1047. EXPENDITURE OF FUNDS FOR DEPARTMENT OF**  
10                   **DEFENSE INTELLIGENCE AND COUNTER-**  
11                   **INTELLIGENCE ACTIVITIES.**

12       (a) *IN GENERAL.*—Subject to subsections (b) and (c),  
13       the Secretary of Defense may expend amounts made avail-  
14       able for the Military Intelligence Program for any of fiscal  
15       years 2020 through 2025 for intelligence and counterintel-  
16       ligence activities for any purpose the Secretary determines  
17       to be proper with regard to intelligence and counterintel-  
18       ligence objects of a confidential, extraordinary, or emer-  
19       gency nature. Such a determination is final and conclusive  
20       upon the accounting officers of the United States.

21       (b) *LIMITATION ON AMOUNT.*—The Secretary of De-  
22       fense may not expend more than five percent of the amounts  
23       described in subsection (a) for any fiscal year for objects  
24       described in that subsection unless—

1           (1) *the Secretary notifies the congressional de-*  
2 *fense committees and the congressional intelligence*  
3 *committees of the intent to expend the amounts and*  
4 *purpose of the expenditure; and*

5           (2) *30 days have elapsed from the date on which*  
6 *the Secretary provides the notice described in para-*  
7 *graph (1).*

8           (c) *CERTIFICATION.—For each expenditure of funds*  
9 *under this section, the Secretary shall certify that such ex-*  
10 *penditure was made for an object of a confidential, extraor-*  
11 *dinary, or emergency nature.*

12          (d) *REPORT.—Not later than December 31 of each of*  
13 *2020 through 2025, the Secretary of Defense shall submit*  
14 *to the congressional defense committees and the congres-*  
15 *sional intelligence committees a report on expenditures*  
16 *made under this section during the fiscal year preceding*  
17 *the year in which the report is submitted. Each such report*  
18 *shall include, for each expenditure under this section during*  
19 *the fiscal year covered by the report, a description, the pur-*  
20 *pose, the program element, and the certification required*  
21 *under section (c).*

22          (e) *LIMITATION ON DELEGATIONS.—The Secretary of*  
23 *Defense may not delegate the authority under this section*  
24 *with respect to any expenditure in excess of \$75,000.*

1           (f) *CONGRESSIONAL INTELLIGENCE COMMITTEES DE-*  
2 *FINED.*—*In this section, the term “congressional intelligence*  
3 *committees” means—*

4           (1) *the Select Committee on Intelligence of the*  
5 *Senate; and*

6           (2) *the Permanent Select Committee on Intel-*  
7 *ligence of the House of Representatives.*

8 **SEC. 1048. LIMITATION ON USE OF FUNDS TO HOUSE CHIL-**  
9 **DREN SEPARATED FROM PARENTS.**

10          (a) *IN GENERAL.*—*None of the amounts authorized to*  
11 *be appropriated by this Act or otherwise made available*  
12 *to the Department of Defense for fiscal year 2020 may be*  
13 *used to house a child separated from a parent.*

14          (b) *CHILD SEPARATED FROM A PARENT.*—

15           (1) *IN GENERAL.*—*For purposes of this section,*  
16 *a child shall not be considered to be separated from*  
17 *a parent if the separation is conducted by an agent*  
18 *or officer of Customs and Border Protection at or*  
19 *near a port of entry or within 100 miles of a border*  
20 *of the United States, and one of the following has oc-*  
21 *curred:*

22           (A) *A State court, authorized under State*  
23 *law, terminates the rights of the parent or legal*  
24 *guardian, determines that it is in the best inter-*  
25 *ests of the child to be removed from the parent*

1           or legal guardian, in accordance with the Adop-  
2           tion and Safe Families Act of 1997 (Public Law  
3           105–89), or makes any similar determination  
4           that is legally authorized under State law.

5           (B) An official from the State or county  
6           child welfare agency with expertise in child trau-  
7           ma and development makes a best interests deter-  
8           mination that it is in the best interests of the  
9           child to be removed from the parent or legal  
10          guardian because the child is in danger of abuse  
11          or neglect at the hands of the parent or legal  
12          guardian, or is a danger to herself or others.

13          (C) The separation is authorized based on—

14               (i) the finding of a chief patrol agent  
15               or the area port director in an official and  
16               undelegated capacity that—

17                       (I) the child is a victim of traf-  
18                       ficking or is at significant risk of be-  
19                       coming a victim of trafficking;

20                       (II) there is a strong likelihood  
21                       that the adult is not the parent or legal  
22                       guardian of the child; or

23                       (III) the child is in danger of  
24                       abuse or neglect at the hands of the

1                   parent or legal guardian, or is a dan-  
2                   ger to themselves or others; and

3                   (ii) the review and reauthorization of  
4                   the separation by an independent child wel-  
5                   fare expert licensed by the State or county  
6                   in which the child was separated by not  
7                   later than 48 hours after the initial decision  
8                   by the Chief Patrol Agent or the Area Port  
9                   Director.

10                  (2) *EFFECT OF FAILURE TO REAUTHORIZE.*— In  
11                  the case of a separation referred to in paragraph  
12                  (1)(C)(ii), if the child welfare expert does not reau-  
13                  thorize such separation, the child shall be considered  
14                  separated from a parent for purposes of this sub-  
15                  section.

16 **SEC. 1049. LIMITATION ON USE OF FUNDS FOR PROVIDING**  
17                                   **HOUSING FOR UNACCOMPANIED ALIEN CHIL-**  
18                                   **DREN.**

19                  (a) *LIMITATION.*—None of the funds authorized to be  
20                  appropriated by this Act or otherwise made available for  
21                  the Department of Defense may be used to provide assist-  
22                  ance to the Department of Health and Human Services for  
23                  the purpose of providing housing for unaccompanied alien  
24                  children unless the Secretary of Defense submits to Congress  
25                  certification that—

1           (1) *the proposed site for the housing meets the*  
2 *standards of the Department of Health and Human*  
3 *Services, including those provided under the Flores*  
4 *settlement agreement;*

5           (2) *identifies any known or potential environ-*  
6 *mental hazards at or near the proposed site;*

7           (3) *describes the actions taken or to be taken to*  
8 *mitigate any such hazard; and*

9           (4) *identifies any waivers or exceptions to stand-*  
10 *ards of the Department of Health and Human Serv-*  
11 *ices, including the Flores settlement agreement, that*  
12 *have been requested or granted with regard to the site.*

13 (b) *DEFINITIONS.—In this section:*

14           (1) *The term “unaccompanied alien children”*  
15 *has the meaning given such term in section 462 of the*  
16 *Homeland Security Act of 2002 (6 U.S.C. 279)).*

17           (2) *The term “Flores settlement agreement”*  
18 *means the stipulated settlement agreement filed on*  
19 *January 17, 1997, in the United States District*  
20 *Court for the Central District of California in Flores*  
21 *v. Reno, CV 85–4544–RJK.*

1           ***Subtitle F—National Defense***  
2           ***Strategy Implementation***

3   **SEC. 1051. SHORT TITLE.**

4           *This subtitle may be cited as the “National Defense*  
5 *Strategy Implementation Act”.*

6   **SEC. 1052. REPORT ON OPERATIONAL CONCEPTS AND**  
7           ***PLANS REGARDING STRATEGIC COMPETI-***  
8           ***TORS.***

9           *Not later than February 1, 2020, and then biannually*  
10 *thereafter, the Secretary of Defense shall submit to the con-*  
11 *gressional defense committees a report on the Department*  
12 *of Defense’s operational concepts and plans regarding stra-*  
13 *tegic competitors, including on strategically significant*  
14 *matters identified in the National Defense Strategy, that*  
15 *also addresses each of the following:*

16           (1) *Ways of employing the force in peace time to*  
17 *effectively deter strategic competitors below the thresh-*  
18 *old of war while ensuring readiness for potential con-*  
19 *flict.*

20           (2) *Ways of adapting innovative, operational*  
21 *concepts needed for strategically significant and plau-*  
22 *sible scenarios related to strategic competitors.*

23           (3) *Ways of addressing operational challenges re-*  
24 *lated to achieving the strategic advantage against*  
25 *strategic competitors related to nuclear, space, cyber,*

1       *conventional, and unconventional means in*  
2       *warfighting doctrine.*

3           (4) *The technologies, force developments, posture*  
4       *and capabilities, readiness, infrastructure, organiza-*  
5       *tion, personnel, and other elements of the defense pro-*  
6       *gram necessary to enable these operational concepts*  
7       *and its implementation listed in paragraphs (1)*  
8       *through (3).*

9           (5) *The ability of the National Security Innova-*  
10       *tion Base to support the operational concepts listed in*  
11       *paragraphs (1) through (3).*

12           (6) *The resources and defense investments nec-*  
13       *essary to support the operational concepts and its im-*  
14       *plementation, including budget recommendations.*

15           (7) *The risks associated with the operational*  
16       *concepts, including the relationship and tradeoffs be-*  
17       *tween missions, risks, and resources.*

18           (8) *Measures and metrics to track the effective-*  
19       *ness of the operational concepts and plans.*

20       **SEC. 1053. ACTIONS TO INCREASE ANALYTIC SUPPORT.**

21           (a) *IN GENERAL.—The Secretary of Defense shall di-*  
22       *rect the Under Secretary of Defense for Policy, the Director*  
23       *of the Joint Staff, and the Director of Cost Assessment and*  
24       *Program Evaluation, in consultation with the head of each*  
25       *military service, to jointly develop and implement a plan*

1 *to strengthen the analytic capabilities, expertise, and proc-*  
2 *esses necessary to meet the National Defense Strategy.*

3 (b) *ELEMENTS.—The plan under subsection (a) shall*  
4 *include—*

5 (1) *an assessment of the decision support capa-*  
6 *bility of the Department of Defense, specifically the*  
7 *analytic expertise the Department is using to link*  
8 *National Defense Strategy objectives to innovative ap-*  
9 *proaches for meeting future challenges, including win-*  
10 *ning in conflict and competing effectively against*  
11 *strategic competitors;*

12 (2) *an approach for comparing competing anal-*  
13 *yses and conducting joint analyses for force structure*  
14 *to support senior leaders in implementing the Na-*  
15 *tional Defense Strategy;*

16 (3) *a determination of the analytic products and*  
17 *support required to implement the National Defense*  
18 *Strategy, including the ability to update these prod-*  
19 *ucts to reflect current strategy and future threats; and*

20 (4) *such other matters as the Secretary of De-*  
21 *fense determines to be appropriate.*

22 (c) *BRIEFING REQUIRED.—Not later than March 1,*  
23 *2020, the Secretary of Defense shall provide to the congres-*  
24 *sional defense committees a briefing on the plan under sub-*  
25 *section (a).*

1 **SEC. 1054. DEFINITIONS.**

2 *In this subtitle:*

3 (1) *The term “operational challenges” means the*  
4 *principal operational challenges to meeting the de-*  
5 *fense objectives described in the most recent National*  
6 *Defense Strategy, as such challenges are defined by*  
7 *the Secretary of Defense in guidance issued to the De-*  
8 *partment of Defense. The guidance issued by the Sec-*  
9 *retary of under the preceding sentence shall—*

10 (A) *specifically identify operational chal-*  
11 *lenges to the Department’s principal strategic*  
12 *priorities of competing effectively with strategic*  
13 *competitors; and*

14 (B) *be made available in unclassified and*  
15 *publicly accessible form.*

16 (2) *The term “strategic competitors” means a*  
17 *country labeled as a strategic competitor in the*  
18 *“Summary of the 2018 National Defense Strategy of*  
19 *the United States of America: Sharpening the Amer-*  
20 *ican Military’s Competitive Edge” issued by the De-*  
21 *partment of Defense pursuant to section 113 of title*  
22 *10, United States Code.*

23 ***Subtitle G—Studies and Reports***

24 **SEC. 1061. REPORT ON TRANSFERS OF EQUIPMENT TO PRO-**  
25 **HIBITED ENTITIES.**

26 (a) **ANNUAL REPORT TO CONGRESS.—**



1        *Secretary of State that there is credible evidence that*  
 2        *such unit has committed a gross violation of human*  
 3        *rights.*

4            *“(2) A description of any instance, confirmed or*  
 5        *under investigation, in which the government of a for-*  
 6        *foreign state that has received defense articles pursuant*  
 7        *to a Department of Defense assistance authority has*  
 8        *subsequently transferred the equipment to a group or*  
 9        *organization that is prohibited from receiving assist-*  
 10       *ance from the United States.*

11        *“(c) APPROPRIATE COMMITTEES OF CONGRESS DE-*  
 12       *FINED.—In this section, the term ‘appropriate committees*  
 13       *of Congress’ means—*

14            *“(1) the Committee on Armed Services and the*  
 15        *Committee on Foreign Relations of the Senate; and*

16            *“(2) the Committee on Armed Services and the*  
 17        *Committee on Foreign Affairs of the House of Rep-*  
 18        *resentatives.”.*

19            *(2) CLERICAL AMENDMENT.—The table of sec-*  
 20        *tions at the beginning of such chapter is amended by*  
 21        *inserting after the item relating to section 386 the fol-*  
 22        *lowing new item:*

*“387. Annual report on transfers of equipment to prohibited entities.”.*

23        *(b) REPORT TO CONGRESS.—*

24            *(1) REPORT REQUIRED.—Not later than March*  
 25        *1, 2020, the Secretary of Defense shall submit to the*

1        *appropriate committees of Congress (as such term is*  
2        *defined in section 387 of title 10, United States Code,*  
3        *as added by subsection (a)), a report on the transfer*  
4        *of defense articles during the period beginning on*  
5        *January 1, 2015, and ending on the date of the enact-*  
6        *ment of this Act to—*

7                *(A) any unit committing a gross violation*  
8                *of human rights; or*

9                *(B) any group or organization prohibited*  
10               *from receiving assistance from the United States.*

11               *(2) MATTERS FOR INCLUSION.—Such report*  
12               *shall include, for such period, each of the following:*

13               *(A) A description of any confirmed instance*  
14               *in which the government of a foreign state that*  
15               *has received defense articles pursuant to a De-*  
16               *partment of Defense assistance authority has*  
17               *subsequently transferred the equipment to a unit*  
18               *of that foreign state that is prohibited from re-*  
19               *ceiving assistance from the United States by rea-*  
20               *son of a determination by the Secretary of State*  
21               *that there is credible evidence that such unit has*  
22               *committed a gross violation of human rights.*

23               *(B) A description of any instance, con-*  
24               *firmed or under investigation, in which the gov-*  
25               *ernment of a foreign state that has received de-*

1           *fense articles pursuant to a Department of De-*  
2           *fense assistance authority has subsequently*  
3           *transferred the equipment to a group or organi-*  
4           *zation that is prohibited from receiving assist-*  
5           *ance from the United States.*

6   **SEC. 1062. ELIMINATION OF REQUIREMENT TO SUBMIT RE-**  
7                           **PORTS TO CONGRESS IN PAPER FORMAT.**

8           *Section 480 of title 10, United States Code, is amend-*  
9    *ed—*

- 10           (1) *in subsection (a), by striking “a copy of”;*  
11           (2) *by redesignating subsection (c) as subsection*  
12           *(d); and*  
13           (3) *by inserting after subsection (b) the following*  
14           *new subsection:*

15           “(c) *ELIMINATION OF PAPER SUBMISSION REQUIRE-*  
16    *MENT.—Whenever the Secretary (or other official) provides*  
17    *a report to Congress (or any committee of either House of*  
18    *Congress) in an electronic medium under subsection (a), the*  
19    *Secretary (or other official) shall not be required to submit*  
20    *an additional copy of the report in a paper format.”.*

21   **SEC. 1063. MODIFICATION OF ANNUAL REPORT ON CIVIL-**  
22                           **IAN CASUALTIES IN CONNECTION WITH**  
23                           **UNITED STATES MILITARY OPERATIONS.**

24           (a) *ADDITIONAL ELEMENT FOR REPORT.—Subsection*  
25    (i) *of section 1057 of the National Defense Authorization*

1 *Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat.*  
2 *1572), as amended by section 1062 of the John S. McCain*  
3 *National Defense Authorization Act for Fiscal Year 2019*  
4 *(Public Law 115–232), is amended—*

5           (1) *by redesignating paragraphs (5) and (6) as*  
6 *paragraphs (8) and (9), respectively; and*

7           (2) *by inserting after paragraph (4) the fol-*  
8 *lowing new paragraphs:*

9           “(5) *A description of any allegations of civilian*  
10 *casualties made by public or non-governmental*  
11 *sources investigated by the Department of Defense.*

12           “(6) *An evaluation of the general reasons for any*  
13 *discrepancies between the assessments of the United*  
14 *States and reporting from nongovernmental organiza-*  
15 *tions regarding non-combatant deaths resulting from*  
16 *strikes and operations undertaken by the United*  
17 *States.*

18           “(7) *The definitions of ‘combatant’ and ‘non-*  
19 *combatant’ used in the preparation of the report.”.*

20           (b) *DEFINITION OF NON-COMBATANT.—Such section is*  
21 *further amended—*

22           (1) *by redesignating subsection (e) as subsection*  
23 *(f); and*

24           (2) *by inserting after subsection (d) the following*  
25 *new subsection (e):*

1           “(e) *DEFINITION OF NON-COMBATANT.*—For purposes  
2 of the preparation of a report under this section, the Sec-  
3 retary of Defense shall define the term ‘non-combatant’.  
4 Such definition shall—

5                   “(1) be consistent with the laws of war; and

6                   “(2) provide that a male of military age shall  
7 not be determined to be a combatant solely on the  
8 basis of proximity to a strike or nonstrike kinetic op-  
9 eration, or the intended target of such an operation.”.

10           “(c) *EXTENSION.*—Subsection (f) of such section, as so  
11 redesignated, is amended by striking “five years” and in-  
12 serting “ten years”.

13           “(d) *CLASSIFICATION.*—The Law Revision Counsel is  
14 directed to place this section in a note following section 113  
15 of title 10, United States Code.

16 **SEC. 1064. INCLUSION OF CERTAIN INDIVIDUALS INVES-**  
17 **TIGATED BY INSPECTORS GENERAL IN THE**  
18 **SEMIANNUAL REPORT.**

19           Section 5(a) of the Inspector General Act of 1978 (5  
20 U.S.C. App.) is amended—

21                   (1) in paragraph (21), by striking “; and” at the  
22 end and inserting a semicolon;

23                   (2) in paragraph (22), by striking the period at  
24 the end and inserting “; and”; and

1           (3) *by inserting after paragraph (22) the fol-*  
2           *lowing new paragraph:*

3           “(23) *the name of each individual who is the*  
4           *subject of an investigation if the individual was an*  
5           *officer in the grade of O-7 and above, including offi-*  
6           *cers who have been selected for promotion to O-7, or*  
7           *a civilian member of the Senior Executive Service.”.*

8   **SEC. 1065. ANNUAL REPORT ON JOINT MILITARY INFORMA-**  
9                           **TION SUPPORT OPERATIONS WEB OPER-**  
10                          **ATIONS CENTER.**

11           (a) *IN GENERAL.*—*Not later than March 1 of 2020,*  
12           *and each subsequent year until the termination date speci-*  
13           *fied in subsection (c), the Commander of United States Spe-*  
14           *cial Operations Command shall submit to the congressional*  
15           *defense committees a report on the activities of the Joint*  
16           *Military Information Support Operations Web Operations*  
17           *Center (hereinafter referred to as the “JMWC”) during the*  
18           *most recently concluded fiscal year.*

19           (b) *CONTENTS OF REPORT.*—*The report required by*  
20           *subsection (a) shall include each of the following, for the*  
21           *fiscal year covered by the report:*

22                   (1) *Definitions of initial operating capability*  
23                   *and full operational capability as such terms relate to*  
24                   *the JMWC.*

1           (2) *A detailed description of all activities con-*  
2 *ducted toward achieving initial operating capability*  
3 *and full operational capability of the JMWC.*

4           (3) *A list of all associated funding requested for*  
5 *each program element for achieving initial operating*  
6 *capability and full operational capability.*

7           (4) *A detailed description of validated doctrine,*  
8 *organization, training, materiel, leadership and edu-*  
9 *cation, personnel, facilities, and policy requirements*  
10 *relating to establishment of the JMWC.*

11           (5) *A description of current JMWC capabilities,*  
12 *including information technology infrastructure and*  
13 *contractual arrangements.*

14           (6) *A list of all physical locations hosting JMWC*  
15 *capabilities.*

16           (7) *The number of military, contractor, and ci-*  
17 *vilian personnel associated with the JMWC and any*  
18 *affiliated agency, service, or other Department of De-*  
19 *fense entity.*

20           (8) *A description of the JMWC personnel organi-*  
21 *zational structure.*

22           (9) *An identification of inherently governmental*  
23 *functions relating to administration of the JMWC*  
24 *and execution of Military Information Support Oper-*

1        *ations (hereinafter referred to as “MISO )” programs*  
2        *hosted by the JMWC.*

3            *(10) A detailed description of frameworks,*  
4        *metrics, and capabilities established to measure the ef-*  
5        *fectiveness of MISO programs hosted by the JMWC.*

6            *(11) A list of all associated funding requested by*  
7        *program element from each of the geographic combat-*  
8        *ant commanders for MISO programs hosted by the*  
9        *JMWC and a description of such MISO activities.*

10          *(12) An assessment of the effectiveness of MISO*  
11        *programs hosted by the JMWC.*

12          *(13) A description of efforts and activities con-*  
13        *ducted to share best practices and leverage lessons*  
14        *learned across the Department of Defense relating to*  
15        *MISO programs hosted by the JMWC, as well as a*  
16        *description of such best practices and lessons learned.*

17          *(14) An identification of liaisons and detailees to*  
18        *the JMWC from agencies and elements of the Depart-*  
19        *ment of Defense.*

20          *(15) Activities and efforts conducted to syn-*  
21        *chronize and deconflict MISO programs within the*  
22        *Department of Defense and with interagency and*  
23        *international partners related to strategic commu-*  
24        *nications, as appropriate.*

1           (16) *Such other information as the Commander*  
2           *determines appropriate.*

3           (c) *TERMINATION.*—*The requirement to submit a re-*  
4           *port under this section shall terminate on January 1, 2025.*

5           **SEC. 1066. MOBILITY CAPABILITY REQUIREMENTS STUDY.**

6           (a) *IN GENERAL.*—*The Commander of the United*  
7           *States Transportation Command, in coordination with the*  
8           *Chairman of the Joint Chiefs of Staff and the Secretaries*  
9           *of the military departments, shall conduct a study of the*  
10           *end-to-end, full-spectrum mobility requirements to fulfill the*  
11           *national defense strategy required by section 113(g) of title*  
12           *10, United States Code, for 2018. Such study shall be com-*  
13           *pleted not later than January 1, 2021.*

14           (b) *ELEMENTS OF STUDY.*—*The study required under*  
15           *subsection (a) shall include each of the following:*

16                   (1) *An assessment of the ability of the pro-*  
17                   *grammed airlift aircraft, tanker aircraft, sealift ships,*  
18                   *and key mobility enablers to meet the integrated mo-*  
19                   *bility requirements in expected strategic environ-*  
20                   *ments, as defined by the guidance in such national*  
21                   *defense strategy.*

22                   (2) *An identification, quantification, and de-*  
23                   *scription of the associated risk-to-mission (as defined*  
24                   *by Chairman of the Joint Chiefs of Staff Manual*

1       3105.01, *Joint Risk Analysis*) required to fulfill such  
2       strategy, including—

3               (A) *as assessment of risk-to-mission associ-*  
4               *ated with achieving strategic and operational ob-*  
5               *jectives using the programmed airlift aircraft,*  
6               *tanker aircraft, sealift ships, and key mobility*  
7               *enablers; and*

8               (B) *a description of the combinations of*  
9               *airlift aircraft, tanker aircraft, sealift ships, and*  
10              *key mobility enabler requirements and capabili-*  
11              *ties that provide low, moderate, significant, and*  
12              *high levels of risk-to-mission to fulfill such strat-*  
13              *egy.*

14       (3) *An identification of any mobility capability*  
15       *gaps, shortfalls, overlaps, or excesses, including—*

16              (A) *an assessment of associated risks with*  
17              *respect to the ability to conduct operations; and*

18              (B) *recommended mitigation strategies*  
19              *where possible.*

20       (4) *The articulation of all key assumptions and*  
21       *decisions made and excursions examined in con-*  
22       *ducting the study with respect to—*

23              (A) *risk;*

24              (B) *programmed forces and infrastructure;*

1           (C) *the availability of commercial airlift*  
2           *and sealift capabilities and resources, when ap-*  
3           *plicable;*

4           (D) *aircraft usage rates, aircraft mission*  
5           *availability rates, aircraft mission capability*  
6           *rates, aircrew ratios, aircrew production, and*  
7           *aircrew readiness rates;*

8           (E) *readiness, crewing, and activation rates*  
9           *for sealift ships;*

10          (F) *prepositioning, forward stationing,*  
11          *seabasing, engineering, and infrastructure;*

12          (G) *demand signals used to represent mis-*  
13          *sions described in the national defense strategy*  
14          *for 2018, in competition and wartime;*

15          (H) *concurrency and global integration of*  
16          *demand signals;*

17          (I) *integrated global presence and basing*  
18          *strategy;*

19          (J) *host nation or third-country support;*

20          (K) *adversary actions to degrade and dis-*  
21          *rupt United States mobility operations;*

22          (L) *aircraft being used for training or un-*  
23          *dergoing depot maintenance or modernization or*  
24          *ships undergoing depot maintenance;*

1           (M) *mobility enabling forces availability,*  
2           *readiness, and use;*

3           (N) *logistics concept of operations, includ-*  
4           *ing any support concepts, methods, combat sup-*  
5           *port forces, and combat service support forces*  
6           *that are required to enable the projection and en-*  
7           *during support to forces both deployed and in*  
8           *combat for each analytic scenario;*

9           (O) *anticipated attrition rates for the as-*  
10          *essed force structure; and*

11          (P) *such other matters as the Commander*  
12          *determines appropriate.*

13          (5) *Such other elements as the Commander deter-*  
14          *mines appropriate.*

15          (c) *REPORTS AND BRIEFINGS.—*

16                 (1) *INTERIM REPORT AND BRIEFING.—Not later*  
17                 *than June 1, 2020, the Commander of the United*  
18                 *States Transportation Command, in coordination*  
19                 *with the Chairman of the Joint Chiefs of Staff and*  
20                 *the Secretaries of the military departments, shall—*

21                         (A) *submit to the Committee on Armed*  
22                         *Services of the House of Representatives an in-*  
23                         *terim report on the study; and*

24                         (B) *provide to such Committee a briefing on*  
25                         *the report.*

1           (2) *FINAL REPORT AND BRIEFING.*—Not later  
2 than January 1, 2021, the Commander of the United  
3 States Transportation Command, in coordination  
4 with the Chairman of the Joint Chiefs of Staff and  
5 the Secretaries of the military departments, shall—

6           (A) submit to the Committee on Armed  
7 Services of the House of Representatives a final  
8 report on the study; and

9           (B) provide to such Committee a briefing on  
10 the report.

11           (3) *FORM OF REPORTS.*—The reports required by  
12 paragraphs (1) and (2) shall be submitted in unclas-  
13 sified form, but may include a classified annex.

14           (d) *DEFINITION OF SEALIFT SHIP.*—In this section,  
15 the term “sealift ship” includes surge sealift vessels, tanker  
16 vessels, and non-governmental vessels incorporated as part  
17 of the maritime logistics enterprise.

18 **SEC. 1067. ASSESSMENT OF SPECIAL OPERATIONS FORCE**

19           **STRUCTURE.**

20           (a) *ASSESSMENT.*—

21           (1) *IN GENERAL.*—The Secretary of Defense shall  
22 enter into an agreement with a federally funded re-  
23 search and development center for the conduct of an  
24 independent assessment of the force structure and  
25 roles and responsibilities of special operations forces.

1           (2) *SUBMISSION TO CONGRESS.*—Not later than  
2           *July 1, 2020, the Secretary shall submit to the con-*  
3           *gressional defense committees the results of the assess-*  
4           *ment required under paragraph (1).*

5           (3) *FORM.*—The assessment required under para-  
6           *graph (1) shall be submitted in unclassified form, but*  
7           *may contain a classified annex.*

8           (b) *MATTERS TO BE CONSIDERED.*—In performing the  
9           *assessment under this section, the federally funded research*  
10          *and development center shall consider the following matters:*

11           (1) *The most recent national defense strategy*  
12          *under section 113(g) of title 10, United States Code.*

13           (2) *Special operations activities, as described in*  
14          *section 167(k) of title 10, United States Code.*

15           (3) *Potential future national security threats to*  
16          *the United States.*

17           (4) *Ongoing counterterrorism and contingency*  
18          *operations of the United States.*

19           (5) *The demand for special operations forces by*  
20          *geographic combatant commanders for security co-*  
21          *operation, exercises, and other missions that could be*  
22          *executed by conventional forces.*

23           (6) *Other government and non-government anal-*  
24          *yses that would contribute to the assessment through*

1       *variations in study assumptions or potential sce-*  
2       *narios.*

3               (7) *The role of emerging technology on special*  
4       *operations forces.*

5               (8) *Opportunities for reduced operation and*  
6       *sustainment costs of special operations.*

7               (9) *Current and projected capabilities of other*  
8       *United States Armed Forces that could affect force*  
9       *structure capability and capacity requirements of*  
10       *special operations forces.*

11              (10) *The process by which United States Special*  
12       *Operations Command determines force size and struc-*  
13       *ture.*

14              (11) *The readiness of special operations forces for*  
15       *assigned missions and future conflicts.*

16              (12) *The adequacy of special operations force*  
17       *structure for meeting the goals of the National Mili-*  
18       *tary Strategy under section 153(b) of title 10, United*  
19       *States Code.*

20              (13) *Any other matters deemed relevant.*

21       (c) *ASSESSMENT RESULTS.*—*The results of the assess-*  
22       *ment under this section shall include each of the following:*

23              (1) *Considerations and recommendations for im-*  
24       *proving the readiness of special operations forces and*  
25       *alternative force structure options.*

1           (2) *Legislative recommendations with respect to*  
2           *section 167 of title 10, United States Code, and other*  
3           *relevant provisions of law.*

4           (3) *The views of United States Special Oper-*  
5           *ations Command on the assessment.*

6 **SEC. 1068. ARMY AVIATION STRATEGIC PLAN AND MOD-**  
7           **ERNIZATION ROADMAP.**

8           (a) *STRATEGIC PLAN AND MODERNIZATION ROAD-*  
9           *MAP.—*

10           (1) *IN GENERAL.—The Secretary of the Army*  
11           *shall develop a comprehensive strategic plan for Army*  
12           *aviation, which shall be designed to—*

13                   (A) *ensure the alignment between require-*  
14                   *ments, both current and future, and Army budg-*  
15                   *et submissions to meet such requirements; and*

16                   (B) *inform the preparation of future defense*  
17                   *program and budget requests by the Secretary,*  
18                   *and the consideration of such requests by Con-*  
19                   *gress.*

20           (2) *ELEMENTS.—The plan required by para-*  
21           *graph (1) shall include the following:*

22                   (A) *An assessment of all missions for Army*  
23                   *aviation, both current missions and those mis-*  
24                   *sions necessary to support the national defense*

1           *strategy and the U.S. Army in Multi-Domain*  
2           *Operations 2028 concept.*

3           *(B) An analysis of platforms, capabilities,*  
4           *and capacities necessary to fulfill such current*  
5           *and future Army aviation missions.*

6           *(C) The required life cycle budget associated*  
7           *with each platform, capability, and capacity re-*  
8           *quirement for both current and future require-*  
9           *ments.*

10           *(D) An analysis showing operational, budg-*  
11           *et, and schedule trade-offs between sustainment*  
12           *of currently fielded capabilities, modernization of*  
13           *currently fielded capabilities, and development*  
14           *and production of new capabilities.*

15           *(b) REPORT TO CONGRESS.—Not later than March 30,*  
16           *2020, the Secretary of the Army shall submit to the congres-*  
17           *sional defense committees a report containing—*

18           *(1) the comprehensive strategic plan required by*  
19           *subsection (a); and*

20           *(2) a sustainment and modernization plan for*  
21           *carrying out such strategic plan through fiscal year*  
22           *2028.*

1 **SEC. 1069. REPORT ON GROUND-BASED LONG-RANGE AR-**  
2 **TILLERY TO COUNTER LAND AND MARITIME**  
3 **THREATS.**

4 (a) *IN GENERAL.*—Not later than March 1, 2020, the  
5 Secretary of Defense shall submit to the Committees on  
6 Armed Services of the Senate and House of Representatives  
7 a report on the efforts by the Army and Marine Corps to  
8 develop and deploy ground-based long-range rocket and  
9 cannon artillery to counter land and maritime threats.

10 (b) *ELEMENTS.*—The report required by subsection (a)  
11 shall include each of the following:

12 (1) *An assessment of ongoing and future Army*  
13 *and Marine Corps efforts to develop and deploy*  
14 *ground-based long-range rocket and cannon artillery*  
15 *to counter land and maritime fires in the areas of op-*  
16 *erations of United States Indo-Pacific Command and*  
17 *United States European Command.*

18 (2) *An assessment of and recommendations for*  
19 *how the Department of Defense can improve the devel-*  
20 *opment and deployment of such artillery.*

21 (3) *An analysis and assessment of how such ar-*  
22 *tillery employed in support of the Armed Forces of the*  
23 *United States and allied forces would be deployed, po-*  
24 *sitioned, and controlled to operate effectively against*  
25 *potential adversaries throughout the depth of their*  
26 *tactical, operational, and strategic formations, in-*





1 ational requirements against adversaries in support of the  
2 objectives of the 2018 national defense strategy.

3 (b) *ASSESSMENT OF RISK.*—In assessing levels of oper-  
4 ational risk under subsection (a), a commander shall use  
5 the military risk matrix of the Chairman of the Joint Chiefs  
6 of Staff, as described in CJCS Instruction 3401.01E.

7 (c) *GEOGRAPHIC COMBATANT COMMAND.*—In this sec-  
8 tion, the term “geographic combatant command” means  
9 each of the following:

10 (1) *United States European Command.*

11 (2) *United States Indo-Pacific Command.*

12 (3) *United States Africa Command.*

13 (4) *United States Southern Command.*

14 (5) *United States Northern Command.*

15 (6) *United States Central Command.*

16 **SEC. 1072. ANNUAL REPORT ON STRIKES UNDERTAKEN BY**  
17 **THE UNITED STATES AGAINST TERRORIST**  
18 **TARGETS OUTSIDE AREAS OF ACTIVE HOS-**  
19 **TILITIES.**

20 (a) *ANNUAL REPORT.*—Not later than May 1 of each  
21 year, the Secretary of Defense shall submit to Congress a  
22 report on the number of strikes undertaken by the United  
23 States against terrorist targets outside areas of active hos-  
24 tilities during the preceding calendar year, as well as as-

1 *assessments of combatant and non-combatant deaths resulting*  
2 *from those strikes.*

3 (b) *CONTENTS OF REPORT.*—*The report required by*  
4 *subsection (a) shall include—*

5 (1) *information obtained from relevant agencies*  
6 *regarding the general sources of information and*  
7 *methodology used to conduct the assessments of com-*  
8 *batant and non-combatant deaths;*

9 (2) *to the extent feasible and appropriate, the*  
10 *general reasons for discrepancies between post-strike*  
11 *assessments from the United States and credible re-*  
12 *porting from nongovernmental organizations regard-*  
13 *ing non-combatant deaths resulting from strikes un-*  
14 *dertaken by the United States against terrorist targets*  
15 *outside areas of active hostilities.*

16 (c) *REVIEW OF POST-STRIKE REPORTING.*—*In pre-*  
17 *paring a report under this section, the Secretary shall re-*  
18 *view relevant and credible post-strike all-source reporting,*  
19 *including such information from nongovernmental sources,*  
20 *for the purpose of ensuring that this reporting is available*  
21 *to and considered by relevant agencies in their assessment*  
22 *of deaths.*

23 (d) *FORM OF REPORT.*—*The report required under*  
24 *subsection (a) shall be submitted in unclassified form, but*  
25 *may include a classified annex.*

1 **SEC. 1073. TERMINATION OF REQUIREMENT FOR SUB-**  
2 **MITTAL TO CONGRESS OF CERTAIN RECUR-**  
3 **RING REPORTS.**

4 (a) *TERMINATION.*—Effective on December 30, 2021,  
5 each report described in subsection (b) that is still required  
6 to be submitted to Congress as of such effective date shall  
7 no longer be required to be submitted to Congress.

8 (b) *COVERED REPORTS.*—A report described in this  
9 subsection is a recurring report that is required to be sub-  
10 mitted to Congress by the Department of Defense, or by any  
11 officer, official, component, or element of the Department,  
12 by any annual national defense authorization Act enacted  
13 on or after December 30, 2016.

14 **SEC. 1074. REPORT ON OPERATIONAL CONCEPTS AND**  
15 **PLANS REGARDING STRATEGIC COMPETI-**  
16 **TORS.**

17 Not later than February 1, 2020, and then biannually  
18 thereafter, the Secretary of Defense shall submit to the con-  
19 gressional defense committees a report on the Department  
20 of Defense’s operational concepts and plans regarding stra-  
21 tegic competitors, including on strategically significant  
22 matters identified in the National Defense Strategy, that  
23 also addresses each of the following:

24 (1) *Ways of employing the force in peace time to*  
25 *effectively deter strategic competitors below the thresh-*

1        *old of war while ensuring readiness for potential con-*  
2        *flict.*

3            (2) *Ways of adapting innovative, operational*  
4        *concepts needed for strategically significant and plau-*  
5        *sible scenarios related to strategic competitors.*

6            (3) *Ways of addressing operational challenges re-*  
7        *lated to achieving the strategic advantage against*  
8        *strategic competitors related to nuclear, space, cyber,*  
9        *conventional, and unconventional means in*  
10       *warfighting doctrine.*

11           (4) *The technologies, force developments, posture*  
12       *and capabilities, readiness, infrastructure, organiza-*  
13       *tion, personnel, and other elements of the defense pro-*  
14       *gram necessary to enable these operational concepts*  
15       *and its implementation listed in paragraphs (1)*  
16       *through (3).*

17           (5) *The ability of the National Security Innova-*  
18       *tion Base to support the operational concepts listed in*  
19       *paragraphs (1) through (3).*

20           (6) *The resources and defense investments nec-*  
21       *essary to support the operational concepts and its im-*  
22       *plementation, including budget recommendations.*

23           (7) *The risks associated with the operational*  
24       *concepts, including the relationship and tradeoffs be-*  
25       *tween missions, risks, and resources.*

1           (8) *Measures and metrics to track the effective-*  
 2           *ness of the operational concepts and plans.*

3                           ***Subtitle H—Other Matters***

4   ***SEC. 1081. TECHNICAL, CONFORMING, AND CLERICAL***  
 5                           ***AMENDMENTS.***

6           (a) *TITLE 10, UNITED STATES CODE.—Title 10,*  
 7   *United States Code, is amended as follows:*

8                   (1) *The table of chapters at the beginning of sub-*  
 9                   *title A, and at the beginning of part I of such subtitle,*  
 10                   *are each amended by striking the item relating to*  
 11                   *chapter 9A and inserting the following:*

***“9A. Audit ..... 240a”.***

12                   (2) *The table of chapters at the beginning of sub-*  
 13                   *title A, and at the beginning of part I of such subtitle,*  
 14                   *are each amended by striking the item relating to*  
 15                   *chapter 112 and inserting the following:*

***“112. Cyber Scholarship Program ..... 2200”.***

16                   (3) *Section 113(j)(1) is amended by inserting*  
 17                   *“the” before “congressional defense committees”.*

18                   (4) *Section 119a is amended in each of the sub-*  
 19                   *section headings for subsections (a) and (b) by strik-*  
 20                   *ing “AACMS” and inserting “ACCMS”.*

21                   (5) *Section 127(c)(1) is amended by inserting*  
 22                   *“the” before “congressional defense committees”.*

23                   (6) *Section 130i is amended—*

1           (A) in subsection (i)(1), by inserting “(C)”  
2 after “(j)(3)”; and

3           (B) in subsection (j)(6), by striking  
4 “40101” and inserting “44802”.

5           (7) Section 131(b)(8) is amended by redesignig-  
6 nating subparagraph (I) as subparagraph (F).

7           (8) Section 132 is amended by redesignating  
8 subsection (e) as subsection (d).

9           (9) The item relating to section 169 in the table  
10 of sections at the beginning of chapter 6 is amended  
11 by inserting a period after “Command”.

12           (10) The item relating to section 183a in the  
13 table of sections at the beginning of chapter 7 is  
14 amended to read as follows:

*“183a. Military Aviation and Installation Assurance Clearinghouse for review of  
mission obstructions.”.*

15           (11) Section 222a(d)(3)(A) is amended by insert-  
16 ing “had” before “been”.

17           (12) Section 222b(a) is amended by striking  
18 “United States Code,”.

19           (13) Section 284 is amended—

20           (A) by striking “section 376” both places it  
21 appears and inserting “section 276”;

22           (B) in subsection (f), by inserting “)” after  
23 “Stat. 1564”;

1           (C) in subsection (g)(2), by striking “section  
2           375” and inserting “section 275”; and

3           (D) in subsection (h)(1)(A)(vi)(VI) by strik-  
4           ing “section 1004 of the National Defense Au-  
5           thorization Act for Fiscal Year 1991 (10 U.S.C.  
6           374 note) and”.

7           (14) Section 240b(b)(1)(B)(i) is amended by  
8           striking “section 253a” and inserting “section 240c”.

9           (15) The table of sections at the beginning of sub-  
10          chapter V of chapter 16 is amended by striking “Sec.”  
11          after the item relating to section 350.

12          (16) Section 341(e)(2)(A) is amended by adding  
13          a period at the end.

14          (17) Section 526(k) is amended by inserting  
15          “the” before “number of general officers”.

16          (18) Section 649j is amended by striking “(a) IN  
17          GENERAL.—The” and inserting “The”.

18          (19) Section 651(a) is amended by inserting  
19          “shall serve” after “(50 U.S.C. 3806(d)(1))”.

20          (20) The heading of section 928b (article 128b of  
21          the Uniform Code of Military Justice) is amended to  
22          read as follows:

1 **“§ 928b. Art. 128b. Domestic violence”.**

2 (21) Section 1034(b)(1)(B)(ii) is amended by  
3 striking “subsection (i)” and inserting “subsection  
4 (j)”;

5 (22) Section 1073c(a) is amended by redesignig-  
6 nating the second paragraph (4) as paragraph (6).

7 (23) Section 1074g(b) is amended by striking  
8 “under subsection (h)” and inserting “under sub-  
9 section (i)”.

10 (24) Section 1075(d)(1) is amended in the table  
11 by striking “25% of out of network” and inserting  
12 “25% out of network”.

13 (25) Section 1076d(d)(1) is amended by striking  
14 “section 1075 of this section” and inserting “section  
15 1075 of this title”.

16 (26) Section 1076e(d)(1) is amended by striking  
17 “section 1075 of this section” and inserting “section  
18 1075 of this title”.

19 (27) Section 1142(c)(3) is amended by striking  
20 “paragraph (2)(B)” and inserting “paragraph  
21 (2)(C)”.

22 (28) Section 1762(c) is amended by striking “in  
23 at any one time” and inserting “at any one time in”.

24 (29) Section 1788a is amended in subsection  
25 (d)(1) by striking “Not later than March 1, 2019, and

1 *each March 1 thereafter” and inserting “Not later*  
2 *than March 1 each year”.*

3 (30) *Section 2208(u) is amended by inserting “of*  
4 *this title” after “2805” each place it appears.*

5 (31) *Section 2216(b)(1) is amended by striking*  
6 *“subsection (c)(1)(B)(iii)” and inserting “subsection*  
7 *(c)(1)(B)(ii)”.*

8 (32) *Section 2222(i)(11) is amended by striking*  
9 *“subsection (a)(6)(A)” and inserting “subsection*  
10 *(e)(6)(A)”.*

11 (33) *Section 2228(a)(2) is amended by striking*  
12 *the second period at the end.*

13 (34) *The item relating to section 2229b in the*  
14 *table of sections at the beginning of chapter 131 is*  
15 *amended to read as follows:*

*“2229b. Comptroller General assessment of acquisition programs and initiatives.”.*

16 (35) *Section 2273(b)(1) is amended by inserting*  
17 *a semicolon at the end.*

18 (36) *The heading for section 2279d is amended*  
19 *by striking the period at the end.*

20 (37) *The heading of section 2284, as added by*  
21 *section 311(a) of the John S. McCain National De-*  
22 *fense Authorization Act for Fiscal Year 2019 (Public*  
23 *Law 115–232; 132 Stat. 1708), is amended to read as*  
24 *follows:*

1 **“§2284. Explosive ordnance disposal defense pro-**  
2 **gram”.**

3 (38) Section 2304(f)(1)(B) is amended—

4 (A) in clause (ii), by striking “paragraph  
5 (6)(A)” and inserting “paragraph (5)(A)”; and

6 (B) in clause (iii), by striking “paragraph  
7 (6)(B)” and inserting “paragraph (5)(B)”.

8 (39) Section 2305a(d)(1) is amended by striking  
9 “a indefinite” and inserting “an indefinite”.

10 (40)(A) Section 2304e is amended by striking the  
11 last four words of the section heading.

12 (B) Section 2323a is amended—

13 (i) in the section heading, by striking the  
14 last six words; and

15 (ii) in subsection (e)—

16 (I) in paragraph (1), by striking “102  
17 Stat. 2468;”;

18 (II) in paragraph (2), by striking “(25  
19 U.S.C. 450b(d))” and inserting “(25 U.S.C.  
20 5304(d))”; and

21 (III) in paragraph (3), by striking  
22 “(25 U.S.C. 450b(e))” and inserting “(25  
23 U.S.C. 5304(e))”.

24 (C) The table of sections at the beginning of  
25 chapter 137 is amended by striking the last four

1 *words of the item relating to section 2304e and the*  
2 *last six words of the item relating to section 2323a.*

3 (41) *Section 2307(a) is amended by striking*  
4 *“may” and inserting “may—”.*

5 (42) *Section 2313b(d) is amended by striking*  
6 *“an task order” both places it appears and inserting*  
7 *“a task order”.*

8 (43) *Section 2329(g)(1) is amended by striking*  
9 *“bridge contact’ ” and inserting “bridge contract’ ”.*

10 (44) *Section 2339a(e)(5) is amended by striking*  
11 *“section 3542(b)” and inserting “section 3552(b)(6)”.*

12 (45) *Section 2366a(c)(1)(F) is amended by strik-*  
13 *ing “section 2366a(b)(6) of this title” and inserting*  
14 *“subsection (b)(6)”.*

15 (46) *Section 2371b(d)(1)(C) is amended by strik-*  
16 *ing “other than” after “sources”.*

17 (47) *Section 2380B is amended—*

18 (A) *by inserting “section” before “2376(1)*  
19 *of this title”; and*

20 (B) *by striking “purposed of” and inserting*  
21 *“purposes of”.*

22 (48) *Section 2401(e)(2) is amended by striking*  
23 *“subsection (f)” and inserting “subsection (g)”.*

24 (49) *Section 2417(a)(2) is amended by striking*  
25 *“of eligible entities” and all that follows through “for*

1        *meetings” and inserting the following: “of eligible en-*  
 2        *tities—*

3                        *“(A) for meetings”.*

4                *(50) The item relating to section 2439 in the*  
 5        *table of sections at the beginning of chapter 144 is*  
 6        *amended to read as follows:*

*“2439. Negotiation of price for technical data before development, production, or  
 sustainment of major weapon systems.”.*

7                *(51) The item relating to subchapter II in the*  
 8        *table of subchapters for chapter 144B is amended to*  
 9        *read as follows:*

***“II. Development, Prototyping, and Deployment of Weap-  
 on System Components or Technology .....2447a”.***

10                *(52) Section 2447a(a) is amended by striking*  
 11        *“after fiscal year 2017”.*

12                *(53) Section 2547(b)(2) is amended—*

13                        *(A) by striking “material” and inserting*  
 14        *“materiel”; and*

15                        *(B) by striking “Material” both places it*  
 16        *appears and inserting “Materiel”.*

17                *(54) Section 2802(e)(1) is amended by striking*  
 18        *“shall comply with” and inserting “shall—*

19                        *“(A) comply with”.*

20                *(55) Section 2804(b) is amended—*

21                        *(A) in the second sentence—*

22                                *(i) by striking “(1)” and “(2)”; and*

1                   (ii) by striking “project and” and in-  
2                   serting “project,”; and

3                   (B) in the third sentence, by striking “;  
4                   and”.

5                   (56) Section 2805(d)(1)(B) is amended by insert-  
6                   ing “under” after “made available”.

7                   (57) Section 2835a(c) is amended by striking  
8                   “(1) The Secretary” and inserting “The Secretary”.

9                   (58) Section 2879(a)(2)(A) is amended by strik-  
10                  ing the comma after “2017”.

11                  (59) Section 2913(c) is amended by striking  
12                  “government a gas or electric utility” and inserting  
13                  “government gas or electric utility”.

14                  (60) The item relating to section 2914 in the  
15                  table of sections at the beginning of chapter 173 is  
16                  amended to read as follows:

“2914. Energy resilience and conservation construction projects.”.

17                  (61)(A) The heading of section 8749, as amended  
18                  by section 1114(b)(2) and redesignated by section  
19                  807(d)(6) of the John S. McCain National Defense  
20                  Authorization Act for Fiscal Year 2019 (Public Law  
21                  115–232), is amended by capitalizing the initial let-  
22                  ter of the fifth, sixth, and seventh words and the ini-  
23                  tial letter of the last two words.

24                  (B) The heading of section 8749a, as added by  
25                  section 1114(a) and redesignated by section 8(d)(6) of

1        *the John S. McCain National Defense Authorization*  
2        *Act for Fiscal Year 2019 (Public Law 115–232), is*  
3        *amended by capitalizing the initial letter of the fifth,*  
4        *sixth, and seventh words.*

5            (62) *Section 9069(a) is amended by striking*  
6        *“are” and inserting “is”.*

7            (63) *Section 10217(e)(4) is amended by striking*  
8        *“shall an individual” and inserting “shall be an in-*  
9        *dividual”.*

10           (64) *The item relating to section 2568a in the*  
11        *table of sections at the beginning of chapter 152 is*  
12        *amended to read as follows:*

*“2568a. Damaged personal protective equipment: award to members separating  
from the armed forces and veterans.”.*

13           (b) *NDAA FOR FISCAL YEAR 2019.—Effective as of*  
14        *August 13, 2018, and as if included therein as enacted, the*  
15        *John S. McCain National Defense Authorization Act for*  
16        *Fiscal Year 2019 (Public Law 115–232) is amended as fol-*  
17        *lows:*

18            (1) *Section 331(g)(2) (132 Stat. 1724) is amend-*  
19        *ed by inserting “of such title” after “chapter 2”.*

20            (2) *Section 844(b) (132 Stat. 1881) is amended*  
21        *by striking “This section and the amendments made*  
22        *by this section” and inserting “The amendment made*  
23        *by subsection (a)”.*

1           (3) Section 1246(1)(B) (132 Stat. 2049) is  
2           amended by adding at the end before the semicolon  
3           the following: “and transferring it to appear after  
4           paragraph (15)”.

5           (4) Section 2805(c) (132 Stat. 2262; 10 U.S.C.  
6           2864 note) is amended by striking “United Facilities  
7           Criteria” and inserting “Unified Facilities Criteria”.

8           (c) NDAA FOR FISCAL YEAR 2018.—Effective as of  
9           December 12, 2017, and as if included therein as enacted,  
10          section 1609(b)(3) of the National Defense Authorization  
11          Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat.  
12          1728; 10 U.S.C. 2273 note) is amended by striking “, and,”  
13          and inserting “, and”.

14          (d) NDAA FOR FISCAL YEAR 2012.—Effective as of  
15          December 31, 2011, and as if included therein as enacted,  
16          section 315 of the National Defense Authorization Act for  
17          Fiscal Year 2012 (Public Law 112–81; 125 Stat. 1358; 10  
18          U.S.C. 2911 note) is amended by redesignating subsections  
19          (d), (e), and (f) as subsections (c), (d), and (e), respectively.

20          (e) COORDINATION WITH OTHER AMENDMENTS MADE  
21          BY THIS ACT.—For purposes of applying amendments  
22          made by provisions of this Act other than this section, the  
23          amendments made by this section shall be treated as having  
24          been enacted immediately before any such amendments by  
25          other provisions of this Act.

1 **SEC. 1082. SUBMISSION TO CONGRESS OF DEPARTMENT OF**  
2 **DEFENSE EXECUTE ORDERS.**

3 (a) *IN GENERAL.*—Chapter 2 of title 10, United States  
4 Code, is amended by adding at the end the following new  
5 section:

6 **“§ 119b. Execute orders: congressional oversight**

7 “Not later than 30 days after the date on which the  
8 Secretary of Defense or the commander of a combatant com-  
9 mand issues an execute order, the Secretary of Defense shall  
10 provide to the chairman and ranking member of each of  
11 the congressional defense committees, and their designated  
12 staff with the appropriate security clearance, a copy of the  
13 execute order.”.

14 (b) *CLERICAL AMENDMENT.*—The table of sections at  
15 the beginning of such chapter is amended by adding at the  
16 end the following new item:

“119b. Execute orders: congressional oversight.”.

17 (c) *PREVIOUSLY ISSUED EXECUTE ORDERS.*—Not  
18 later than 30 days after the date of the enactment of this  
19 Act, the Secretary of Defense shall submit to the chairman  
20 and ranking member of each of the congressional defense  
21 committees, and their designated staff with the appropriate  
22 security clearance, copies of each execute order issued by  
23 the Secretary or by a commander of a combatant command  
24 before the date of the enactment of this Act.

1 **SEC. 1083. EXTENSION OF NATIONAL SECURITY COMMIS-**  
2 **SION ON ARTIFICIAL INTELLIGENCE.**

3 *Section 1051 of the John S. McCain National Defense*  
4 *Authorization Act for Fiscal Year 2019 (Public Law 115-*  
5 *232) is amended—*

6 *(1) in subsection (c)(1), by striking “180 days”*  
7 *and inserting “360 days”; and*

8 *(2) in subsection (e), by striking “October 1,*  
9 *2020” and inserting “March 1, 2021”.*

10 **SEC. 1084. NATIONAL COMMISSION ON MILITARY AVIATION**  
11 **SAFETY.**

12 *(a) EXTENSION OF DEADLINE FOR REPORT.—Sub-*  
13 *section (h)(2) of section 1087 of the John S. McCain Na-*  
14 *tional Defense Authorization Act for Fiscal Year 2019 (Pub-*  
15 *lic Law 115–232) is amended by striking “March 1, 2020”*  
16 *and inserting “December 1, 2020”.*

17 *(b) SECRETARY OF DEFENSE REPORT.—Such section*  
18 *is further amended by adding at the end the following new*  
19 *subsection:*

20 *“(l) REPORT TO CONGRESS.—Not later than 120 days*  
21 *after the date of the submittal of the report under subsection*  
22 *(h)(2), the Secretary of Defense, in coordination with the*  
23 *Secretary of each of the military departments, shall submit*  
24 *to the Committees on Armed Services of the Senate and*  
25 *House of Representatives a report that includes each of the*  
26 *following:*



1 **SEC. 1086. PROCESSES AND PROCEDURES FOR NOTIFICA-**  
2 **TIONS REGARDING SPECIAL OPERATIONS**  
3 **FORCES.**

4 (a) *IN GENERAL.*—Not later than 180 days after en-  
5 actment of this Act, the Secretary of Defense shall establish  
6 and submit to the congressional defense committees proc-  
7 esses and procedures for providing notifications to the com-  
8 mittees regarding members of special operations forces, as  
9 identified in section 167(j) of title 10, United States Code.

10 (b) *PROCESSES AND PROCEDURES.*—The processes and  
11 procedures established under subsection (a) shall—

12 (1) *clarify the roles and responsibilities of the*  
13 *Secretaries of the military departments, the Assistant*  
14 *Secretary of Defense for Special Operations and Low*  
15 *Intensity Conflict, and the Commander of United*  
16 *States Special Operations Command;*

17 (2) *provide guidance relating to the types of*  
18 *matters that would warrant congressional notifica-*  
19 *tion, including awards, reprimands, incidents, and*  
20 *any other matters the Secretary determines necessary;*

21 (3) *be consistent with the national security of the*  
22 *United States;*

23 (4) *be designed to protect sensitive information*  
24 *during an ongoing investigation;*

25 (5) *account for the privacy of members of the*  
26 *Armed Forces; and*

1           (6) *take in to account existing processes and pro-*  
2           *cedures for notifications to the congressional defense*  
3           *committees regarding members of the conventional*  
4           *Armed Forces.*

5   **SEC. 1087. ASSESSMENT OF STANDARDS, PROCESSES, PRO-**  
6                           **CEDURES, AND POLICY RELATING TO CIVIL-**  
7                           **IAN CASUALTIES.**

8           (a) *ASSESSMENT REQUIRED.*—*The Secretary of De-*  
9           *fense shall enter into an agreement with a federally funded*  
10          *research and development center for the conduct of an inde-*  
11          *pendent assessment of the sufficiency of Department of De-*  
12          *fense standards, processes, procedures, and policy relating*  
13          *to civilian casualties resulting from United States military*  
14          *operations.*

15          (b) *MATTERS TO BE CONSIDERED.*—*In conducting the*  
16          *assessment under this section, the federally funded research*  
17          *and development center shall consider the following matters:*

18                  (1) *Department of Defense policy relating to ci-*  
19                  *vilian casualties resulting from United States mili-*  
20                  *tary operations.*

21                  (2) *Standards, processes, and procedures for in-*  
22                  *ternal assessments and investigations of civilian cas-*  
23                  *ualties resulting from United States military oper-*  
24                  *ations.*

1           (3) *Standards, processes, and procedures for*  
2 *identifying, assessing, investigating, and responding*  
3 *to reports of civilian casualties resulting from United*  
4 *States military operations from the public and non-*  
5 *governmental entities and sources, including the con-*  
6 *sideration of relevant information from all available*  
7 *sources.*

8           (4) *Combatant command organizational con-*  
9 *structs for assessing and investigating civilian casual-*  
10 *ties resulting from United States military operations.*

11           (5) *Mechanisms for public and non-governmental*  
12 *entities to report civilian casualties that have resulted*  
13 *from United States military operations to the Depart-*  
14 *ment of Defense.*

15           (6) *Enterprise-wide mechanisms for accurately*  
16 *recording kinetic strikes, including raids, strikes, and*  
17 *other missions, and civilian casualties resulting from*  
18 *United States military operations.*

19           (7) *Standards, processes, procedures, and policy*  
20 *for reducing the likelihood of civilian casualties from*  
21 *United States military operations.*

22           (8) *The institutionalization of lessons learned*  
23 *and best practices for reducing the likelihood of civil-*  
24 *ian casualties and relating to civilian casualties re-*  
25 *sulting from United States military operations.*

1           (9) *Any other matters the Secretary of Defense*  
2           *determines appropriate.*

3           (c) *ASSESSMENT RESULTS.*—*The results of the assess-*  
4           *ment under this section shall—*

5           (1) *present considerations for improving stand-*  
6           *ards, processes, procedures, policy, and organizational*  
7           *constructs relating to civilian casualties resulting*  
8           *from military operations;*

9           (2) *provide for the presentation of Department of*  
10          *Defense views on the assessment; and*

11          (3) *provide for the presentation of the views of*  
12          *non-governmental organizations on the assessment.*

13          (d) *REPORT TO CONGRESS.*—

14          (1) *IN GENERAL.*—*Not later than March 1, 2020,*  
15          *the Secretary of Defense shall submit to the congress-*  
16          *sional defense committees a report containing the re-*  
17          *sults of the assessment conducted under this section.*

18          (2) *FORM OF REPORT.*—*The report under para-*  
19          *graph (1) shall be submitted in unclassified form, but*  
20          *may contain a classified annex.*

21          (3) *PUBLIC AVAILABILITY.*—*The Secretary shall*  
22          *make the report under paragraph (1) publicly avail-*  
23          *able.*

24          **SEC. 1088. DISPOSAL OF IPV4 ADDRESSES.**

25          (a) *DISPOSAL REQUIRED.*—

1           (1) *IN GENERAL.*—Not later than 10 years after  
2           the date of the enactment of this Act, the Secretary of  
3           Defense shall sell all of the IPv4 addresses described  
4           in subsection (b) at fair market value. The net pro-  
5           ceeds collected from a sale under this section shall be  
6           deposited in the General Fund of the Treasury.

7           (2) *DEADLINES FOR CERTAIN BLOCKS.*—Of the  
8           IPv4 addresses described in subsection (b), the Sec-  
9           retary of Defense shall sell in accordance with para-  
10          graph (1)—

11                 (A) one block referred to in such subsection,  
12                 or an equivalent number of IPv4 addresses, by  
13                 not later than two years after the date of the en-  
14                 actment of this Act; and

15                 (B) one additional such block, or an equiva-  
16                 lent number of IPv4 addresses, by not later than  
17                 three years after the date of the enactment of this  
18                 Act.

19          (b) *IPv4 ADDRESSES.*—The IPv4 addresses described  
20          in this subsection are all IPv4 addresses assigned to any  
21          agency or entity of the Department of Defense, including  
22          all addresses contained in blocks 6.0.0.0/8, 7.0.0.0/8,  
23          11.0.0.0/8, 21.0.0.0/8, 22.0.0.0/8, 26.0.0.0/8, 28.0.0.0/8,  
24          29.0.0.0/8, 30.0.0.0/8, 33.0.0.0/8, 55.0.0.0/8, 214.0.0.0/8,  
25          and 215.0.0.0/8.

1       (c) *REPORT TO CONGRESS.*—

2             (1) *IN GENERAL.*—Not later than 180 days after  
3       the date of the enactment of this Act, the Secretary  
4       shall submit to the congressional defense committees a  
5       report that includes each of the following:

6             (A) A description of the measures taken by  
7       the Secretary regarding the disposal of the IPv4  
8       addresses described in subsection (b).

9             (B) An accounting of the total IPv4 address  
10       holdings of the Department of Defense, as of the  
11       date of the submittal of the report.

12            (C) A description of any legacy systems of  
13       the Department that are dependent on the IPv4  
14       addresses described in subsection (b).

15            (D) The plan of the Secretary to transition  
16       all Department addresses to IPv6.

17            (E) Such other information as the Secretary  
18       determines appropriate.

19            (2) *FORM OF REPORT.*—The report required by  
20       paragraph (1) shall be submitted in unclassified form,  
21       but may contain a classified annex.

22       (d) *LIMITATION ON USE OF FUNDS.*—Of the funds au-  
23       thorized to be appropriated by this Act or otherwise made  
24       available for fiscal year 2020 for Operation and Mainte-  
25       nance, Defense-wide, Office of the Secretary of Defense, for

1 *Travel of Persons (OP 32 Line 308), not more than 70 per-*  
2 *cent may be obligated or expended until the date on which*  
3 *the Secretary of Defense submits to the Committees on*  
4 *Armed Services of the Senate and the House of Representa-*  
5 *tives the report required under subsection (c).*

6 **SEC. 1089. SECURING AMERICAN SCIENCE AND TECH-**  
7 **NOLOGY.**

8 *(a) INTERAGENCY WORKING GROUP.—*

9 *(1) IN GENERAL.—The Director of the Office of*  
10 *Science and Technology Policy, acting through the*  
11 *National Science and Technology Council, in con-*  
12 *sultation with the National Security Advisor, shall es-*  
13 *tablish an interagency working group to coordinate*  
14 *activities to protect federally funded research and de-*  
15 *velopment from foreign interference, cyberattacks,*  
16 *theft, or espionage and to develop common definitions*  
17 *and best practices for Federal science agencies and*  
18 *grantees, while accounting for the importance of the*  
19 *open exchange of ideas and international talent re-*  
20 *quired for scientific progress and American leadership*  
21 *in science and technology.*

22 *(2) MEMBERSHIP.—*

23 *(A) IN GENERAL.—The working group shall*  
24 *include a representative of—*

25 *(i) the National Science Foundation;*

- 1                   (ii) the Department of Energy;
- 2                   (iii) the National Aeronautics and  
3 Space Administration;
- 4                   (iv) the National Institute of Stand-  
5 ards and Technology;
- 6                   (v) the Department of Commerce;
- 7                   (vi) the National Institutes of Health;
- 8                   (vii) the Department of Defense;
- 9                   (viii) the Department of Agriculture;
- 10                  (ix) the Department of Education;
- 11                  (x) the Department of State;
- 12                  (xi) the Department of the Treasury;
- 13                  (xii) the Department of Justice;
- 14                  (xiii) the Department of Homeland Se-  
15 curity;
- 16                  (xiv) the Central Intelligence Agency;
- 17                  (xv) the Federal Bureau of Investiga-  
18 tion;
- 19                  (xvi) the Office of the Director of Na-  
20 tional Intelligence;
- 21                  (xvii) the Office of Management and  
22 Budget;
- 23                  (xviii) the National Economic Council;
- 24                  and

1                   *(xix) such other Federal department or*  
2                   *agency as the President considers appro-*  
3                   *priate.*

4                   *(B) CHAIR.—The working group shall be*  
5                   *chaired by the Director of the Office of Science*  
6                   *and Technology Policy (or the Director’s des-*  
7                   *ignee).*

8                   *(3) RESPONSIBILITIES OF THE WORKING*  
9                   *GROUP.—The working group established under para-*  
10                  *graph (1) shall—*

11                  *(A) identify known and potential cyber,*  
12                  *physical, and human intelligence threats and*  
13                  *vulnerabilities within the United States sci-*  
14                  *entific and technological enterprise;*

15                  *(B) coordinate efforts among agencies to*  
16                  *share and update important information, in-*  
17                  *cluding specific examples of foreign interference,*  
18                  *cyberattacks, theft, or espionage directed at feder-*  
19                  *ally funded research and development or the in-*  
20                  *tegrity of the United States scientific enterprise;*

21                  *(C) identify and assess existing mechanisms*  
22                  *for protection of federally funded research and*  
23                  *development;*

24                  *(D) develop an inventory of—*

1           (i) terms and definitions used across  
2           Federal science agencies to delineate areas  
3           that may require additional protection; and

4           (ii) policies and procedures at Federal  
5           science agencies regarding protection of fed-  
6           erally funded research; and

7           (E) develop and periodically update unclas-  
8           sified policy guidance to assist Federal science  
9           agencies and grantees in defending against  
10          threats to federally funded research and develop-  
11          ment and the integrity of the United States sci-  
12          entific enterprise that—

13           (i) includes—

14           (I) descriptions of known and po-  
15           tential threats to federally funded re-  
16           search and development and the integ-  
17           rity of the United States scientific en-  
18           terprise;

19           (II) common definitions and ter-  
20           minology for categorization of research  
21           and technologies that are protected;

22           (III) identified areas of research  
23           or technology that might require addi-  
24           tional protection;

1           (IV) *recommendations for how*  
2           *control mechanisms can be utilized to*  
3           *protect federally funded research and*  
4           *development from foreign interference,*  
5           *cyberattacks, theft or espionage, includ-*  
6           *ing any recommendations for updates*  
7           *to existing control mechanisms;*

8           (V) *recommendations for best*  
9           *practices for Federal science agencies*  
10          *and grantees to defend against threats*  
11          *to federally funded research and devel-*  
12          *opment, including coordination and*  
13          *harmonization of any relevant report-*  
14          *ing requirements that Federal science*  
15          *agencies implement for grantees;*

16          (VI) *assessments of potential con-*  
17          *sequences that any proposed practices*  
18          *would have on international collabora-*  
19          *tion and United States leadership in*  
20          *science and technology; and*

21          (VII) *a classified addendum as*  
22          *necessary to further inform Federal*  
23          *science agency decisionmaking; and*

1                   (ii) accounts for the range of needs  
2                   across different sectors of the United States  
3                   science and technology enterprise.

4                   (4) *COORDINATION WITH NATIONAL ACADEMIES*  
5                   *ROUNDTABLE.*—*The Director of the Office of Science*  
6                   *and Technology Policy shall coordinate with the*  
7                   *Academies to ensure that at least one member of the*  
8                   *interagency working group is also a member of the*  
9                   *roundtable under subsection (b).*

10                  (5) *INTERIM REPORT.*—*Not later than six*  
11                  *months after the date of enactment of this Act, the Di-*  
12                  *rector of the Office of Science and Technology Policy*  
13                  *shall provide a report to the relevant committees that*  
14                  *includes the inventory required under paragraph*  
15                  *(3)(D), and an update on progress toward developing*  
16                  *the policy guidance required under paragraph (3)(E),*  
17                  *as well as any additional activities undertaken by the*  
18                  *working group in that time.*

19                  (6) *BIENNIAL REPORTING.*—*Two years after the*  
20                  *date of enactment of this Act, and at least every two*  
21                  *years thereafter, the Director of the Office of Science*  
22                  *and Technology Policy shall provide a summary re-*  
23                  *port to the relevant committees on the activities of the*  
24                  *working group and the most current version of the*  
25                  *policy guidance required under paragraph (3)(E).*

1       (b) *NATIONAL ACADEMIES SCIENCE, TECHNOLOGY*  
2 *AND SECURITY ROUNDTABLE.*—

3           (1) *IN GENERAL.*—*The National Science Foun-*  
4 *dation, the Department of Energy, and the Depart-*  
5 *ment of Defense, and any other agencies as deter-*  
6 *mined by the Director of the Office of Science and*  
7 *Technology Policy, shall enter into a joint agreement*  
8 *with the Academies to create a new “National*  
9 *Science, Technology, and Security Roundtable” (here-*  
10 *inafter in this subsection referred to as the “round-*  
11 *table”).*

12           (2) *PARTICIPANTS.*—*The roundtable shall in-*  
13 *clude senior representatives and practitioners from*  
14 *Federal science, intelligence, and national security*  
15 *agencies, law enforcement, as well as key stakeholders*  
16 *in the United States scientific enterprise including*  
17 *institutions of higher education, Federal research lab-*  
18 *oratories, industry, and non-profit research organiza-*  
19 *tions.*

20           (3) *PURPOSE.*—*The purpose of the roundtable is*  
21 *to facilitate among participants—*

22           (A) *exploration of critical issues related to*  
23 *protecting United States national and economic*  
24 *security while ensuring the open exchange of*  
25 *ideas and international talent required for sci-*

1           *entific progress and American leadership in*  
2           *science and technology;*

3                   *(B) identification and consideration of secu-*  
4                   *rity threats and risks involving federally funded*  
5                   *research and development, including foreign in-*  
6                   *terference, cyberattacks, theft, or espionage;*

7                   *(C) identification of effective approaches for*  
8                   *communicating the threats and risks identified*  
9                   *in subparagraph (b) to the academic and sci-*  
10                  *entific community, including through the shar-*  
11                  *ing of unclassified data and relevant case stud-*  
12                  *ies;*

13                  *(D) sharing of best practices for addressing*  
14                  *and mitigating the threats and risks identified*  
15                  *in subparagraph (B); and*

16                  *(E) examination of potential near- and*  
17                  *long-term responses by the government and the*  
18                  *academic and scientific community to mitigate*  
19                  *and address the risks associated with foreign*  
20                  *threats.*

21           *(4) REPORT AND BRIEFING.—The joint agree-*  
22           *ment under paragraph (1) shall specify that—*

23                    *(A) the roundtable shall periodically orga-*  
24                    *nize workshops and issue publicly available re-*

1           ports on the topics described in paragraph (3)  
2           and the activities of the roundtable; and

3                   (B) not later than March 1, 2020, the Acad-  
4           emies shall provide a briefing to relevant com-  
5           mittees on the progress and activities of the  
6           roundtable.

7           (5) *AUTHORIZATION OF APPROPRIATIONS.*—

8           *There is authorized to be appropriated \$5,000,000 to*  
9           *the Secretary of Defense for fiscal years 2020 to 2024*  
10          *to carry out this subsection.*

11          (c) *DEFINITIONS.*—*In this section:*

12                   (1) *The term “Academies” means the National*  
13          *Academies of Science, Engineering and Medicine.*

14                   (2) *The term “Federal science agency” means*  
15          *any Federal agency with at least \$100,000,000 in*  
16          *basic and applied research obligations in fiscal year*  
17          *2018.*

18                   (3) *The term “grantee” means an entity that*  
19          *is—*

20                           (A) *a recipient or subrecipient of a Federal*  
21          *grant or cooperative agreement; and*

22                           (B) *an institution of higher education or a*  
23          *non-profit organization.*

24                   (4) *The term “relevant committees” means—*

1           (A) the Committee on Science, Space, and  
2           Technology of the House of Representatives;

3           (B) the Committee on Commerce, Science,  
4           and Transportation of the Senate;

5           (C) the Committee on Armed Services of the  
6           House of Representatives; and

7           (D) the Committee on Armed Services of the  
8           Senate.

9   **SEC. 1090. STANDARDIZED POLICY GUIDANCE FOR CALCU-**  
10           **LATING AIRCRAFT OPERATION AND**  
11           **SUSTAINMENT COSTS.**

12           *Not later than 270 days after the date of the enactment*  
13           *of this Act, the Under Secretary of Defense for Acquisition*  
14           *and Sustainment, in coordination with the Director of Cost*  
15           *Analysis and Program Evaluation and in consultation*  
16           *with the Secretary of each of the military services, shall de-*  
17           *velop and implement standardized policy guidance for cal-*  
18           *culating aircraft operation and sustainment costs for the*  
19           *Department of Defense. Such guidance shall provide for a*  
20           *standardized calculation of—*

21           (1) aircraft cost per flying hour;

22           (2) aircraft cost per aircraft tail per year; and

23           (3) total cost of ownership per flying hour for  
24           aircraft systems.

1 **SEC. 1091. SPECIAL FEDERAL AVIATION REGULATION**  
2 **WORKING GROUP.**

3 (a) *IN GENERAL.*—Not later than 90 days after the  
4 date of the enactment of this Act, the Secretary of Defense,  
5 the Secretary of Transportation, and the Secretary of State,  
6 shall jointly establish a Special Federal Aviation Regula-  
7 tion (in this section referred to as the “SFAR”) interagency  
8 working group to review the current options for the Depart-  
9 ment of Defense to use contracted United States civil avia-  
10 tion to provide support for Department of Defense missions  
11 in areas where a Federal Aviation Administration SFAR  
12 is in effect.

13 (b) *DUTIES.*—The working group shall—

14 (1) analyze all options currently available for  
15 the Department of Defense to use contracted United  
16 States civil aviation to provide support for Depart-  
17 ment of Defense missions in areas where a Federal  
18 Aviation Administration SFAR is in effect;

19 (2) review existing processes of the Department  
20 of Defense, the Federal Aviation Administration, and  
21 the Department of State, with respect to the Depart-  
22 ment of Defense’s use of contracted United States civil  
23 aviation in areas where a Federal Aviation Adminis-  
24 tration SFAR is in effect;

25 (3) identify any issues, inefficiencies, or concerns  
26 with the existing options and processes, including

1       *safety of flight, legal considerations, mission delivery,*  
2       *and security considerations; and*

3             (4) *develop recommendations, if any, to improve*  
4       *existing processes or expand the options available for*  
5       *the Department of Defense to use contracted United*  
6       *States civil aviation to provide support to Depart-*  
7       *ment of Defense missions in areas where a Federal*  
8       *Aviation Administration SFAR is in effect.*

9       (c) *MEMBERS.—*

10            (1) *APPOINTMENT.—The Secretary of Defense,*  
11       *the Secretary of Transportation, and the Secretary of*  
12       *State shall each appoint not more than 5 members to*  
13       *the working group with expertise in civil aviation*  
14       *safety, state aircraft operations, the provision of con-*  
15       *tracted aviation support to the Department of De-*  
16       *fense, and the coordination of such efforts between the*  
17       *Department of Defense, the Department of State, and*  
18       *the Federal Aviation Administration. The 5 members*  
19       *appointed by the Secretary of Transportation shall*  
20       *include at least 3 members from the Federal Aviation*  
21       *Administration.*

22            (2) *QUALIFICATIONS.—All working group mem-*  
23       *bers shall be full-time employees of the Federal Gov-*  
24       *ernment with appropriate security clearances to allow*  
25       *discussion of all classified information and materials*

1       *necessary to fulfill the working group’s duties pursu-*  
2       *ant to subsection (b).*

3       *(d) REPORT.—Not later than 1 year after the date it*  
4       *is established, the working group shall submit a report on*  
5       *its findings and any recommendations developed pursuant*  
6       *to subsection (b) to the congressional defense committees, the*  
7       *Committee on Commerce, Science, and Transportation of*  
8       *the Senate, and the Committee on Transportation and In-*  
9       *frastructure of the House of Representatives.*

10       *(e) TERMINATION.—The working group shall termi-*  
11       *nate 90 days after the date the report is submitted under*  
12       *subsection (d).*

13       *(f) DEFINITIONS.—In this section the following defini-*  
14       *tions apply:*

15               *(1) The term “United States civil aviation”*  
16       *means—*

17                       *(A) United States air carriers and United*  
18                       *States commercial operators;*

19                       *(B) persons exercising the privileges of an*  
20                       *airman certificate issued by the FAA, except*  
21                       *such persons operating United States-registered*  
22                       *aircraft for a foreign air carrier; and*

23                       *(C) operators of civil aircraft registered in*  
24                       *the United States, except where the operator of*  
25                       *such aircraft is a foreign air carrier.*

1           (2) *The term “Federal Aviation Administration*  
2           *SFAR” means the Special Federal Aviation Regula-*  
3           *tion included under subpart M of part 91 of title 14,*  
4           *Code of Federal Regulations.*

5           **TITLE XI—CIVILIAN PERSONNEL**  
6                                   **MATTERS**

7           **SEC. 1101. DEFENSE ADVANCED RESEARCH PROJECTS**  
8                                   **AGENCY PERSONNEL MANAGEMENT AUTHOR-**  
9                                   **ITY.**

10          *Section 1599h(b)(1)(B) of title 10, United States Code,*  
11          *is amended by striking “100 positions” and inserting “140*  
12          *positions”.*

13          **SEC. 1102. MODIFICATION OF PROBATIONARY PERIOD FOR**  
14                                   **CERTAIN DEPARTMENT OF DEFENSE EM-**  
15                                   **PLOYEES.**

16          *(a) IN GENERAL.—Section 1599e of title 10, United*  
17          *States Code, is amended by—*

18                   (1) *striking subsection (a) and inserting the fol-*  
19                   *lowing:*

20                   *“(a) IN GENERAL.—Notwithstanding sections 3321*  
21                   *and 3393(d) of title 5, the probationary period applicable*  
22                   *under those sections to a covered employee may be extended*  
23                   *by the Secretary concerned at the discretion of such Sec-*  
24                   *retary.”; and*

25                   (2) *by striking subsection (d).*

1       (b) *CONFORMING AMENDMENTS.*—Title 5, United  
2 States Code, is amended—

3           (1) in section 7501(1), by striking “, except as  
4 provided in section 1599e of title 10,”; and

5           (2) in section 7511(a)(1)(A)(ii), by striking “ex-  
6 cept as provided in section 1599e of title 10,”.

7       (c) *APPLICATION.*—The amendments made by this sec-  
8 tion shall apply to any covered employee (as that term is  
9 defined in paragraph (1) of section 1599e(b) of title 10,  
10 United States Code) appointed to a position described  
11 under subparagraph (A) or (B) of such paragraph on or  
12 after the date of the enactment of this Act.

13 **SEC. 1103. CIVILIAN PERSONNEL MANAGEMENT.**

14       Section 129 of title 10, United States Code, is amend-  
15 ed—

16           (1) in subsection (a)—

17               (A) in the first sentence, by striking “each  
18 fiscal year” and inserting “each fiscal year sole-  
19 ly”; and

20               (B) in the second sentence—

21                   (i) by striking “Any” and inserting  
22 “The management of such personnel in any  
23 fiscal year shall not be subject to any”; and

1                   (ii) by striking “shall be developed”  
2                   and all that follows through “changed cir-  
3                   cumstances”; and

4                   (2) in subsection (c)(2)—

5                   (A) in each of subparagraphs (A) and (B),  
6                   by inserting “and associated costs” after each in-  
7                   stance of “projected size”; and

8                   (B) in subparagraph (B), by striking “that  
9                   have been taken” and all that follows through the  
10                  period and inserting “to reduce the overall costs  
11                  of the total force of military, civilian, and con-  
12                  tract workforces.”.

13 **SEC. 1104. ONE-YEAR EXTENSION OF TEMPORARY AUTHOR-**  
14 **ITY TO GRANT ALLOWANCES, BENEFITS, AND**  
15 **GRATUITIES TO CIVILIAN PERSONNEL ON OF-**  
16 **FICIAL DUTY IN A COMBAT ZONE.**

17                  Paragraph (2) of section 1603(a) of the Emergency  
18 Supplemental Appropriations Act for Defense, the Global  
19 War on Terror, and Hurricane Recovery, 2006 (Public Law  
20 109–234; 120 Stat. 443), as added by section 1102 of the  
21 Duncan Hunter National Defense Authorization Act for  
22 Fiscal Year 2009 (Public Law 110–417; 122 Stat. 4616)  
23 and as most recently amended by section 1115 of the John  
24 S. McCain National Defense Authorization Act for Fiscal

1 Year 2019 (Public Law 115–232), is further amended by  
2 striking “2020” and inserting “2021”.

3 **SEC. 1105. ONE-YEAR EXTENSION OF AUTHORITY TO WAIVE**  
4 **ANNUAL LIMITATION ON PREMIUM PAY AND**  
5 **AGGREGATE LIMITATION ON PAY FOR FED-**  
6 **ERAL CIVILIAN EMPLOYEES WORKING OVER-**  
7 **SEAS.**

8 (a) *EXTENSION OF AUTHORITY.*—Section 1101(a) of  
9 the Duncan Hunter National Defense Authorization Act for  
10 Fiscal Year 2009 (Public Law 110–417; 122 Stat. 4615),  
11 as most recently amended by section 1104 of the John S.  
12 McCain National Defense Authorization Act for Fiscal Year  
13 2019 (Public Law 115–232), is further amended by striking  
14 “through 2019” and inserting “through 2020”.

15 (b) *EFFECTIVE DATE.*—The amendment made by this  
16 section shall take effect on January 1, 2020.

17 **SEC. 1106. PERFORMANCE OF CIVILIAN FUNCTIONS BY**  
18 **MILITARY PERSONNEL.**

19 Subparagraph (B) of paragraph (1) of subsection (g)  
20 of section 129a of title 10, United States Code, is amended  
21 to read as follows:

22 “(B) such functions may be performed by  
23 military personnel for a period that does not ex-  
24 ceed one year if the Secretary of the military de-  
25 partment concerned determines that—

1           “(i) the performance of such functions  
2           by military personnel is required to address  
3           critical staffing needs resulting from a re-  
4           duction in personnel or budgetary resources  
5           by reason of an Act of Congress; and

6           “(ii) the military department con-  
7           cerned is in compliance with the policies,  
8           procedures, and analysis required by this  
9           section and section 129 of this title.”.

10 **SEC. 1107. EXTENSION OF DIRECT HIRE AUTHORITY FOR**  
11 **DOMESTIC INDUSTRIAL BASE FACILITIES**  
12 **AND MAJOR RANGE AND TEST FACILITIES**  
13 **BASE.**

14           (a) *IN GENERAL.*—Subsection (a) of section 1125 of  
15 the National Defense Authorization Act for Fiscal Year  
16 2017 (Public Law 114–328), as amended by subsection (a)  
17 of section 1102 of the National Defense Authorization Act  
18 for Fiscal Year 2018 (Public Law 115–91), is further  
19 amended by striking “through 2021,” and inserting  
20 “through 2025,”.

21           (b) *BRIEFING.*—Subsection (b) of such section 1102 is  
22 amended by striking “fiscal years 2019 and 2021” and in-  
23 serting “fiscal years 2019 through 2025”.

1 **SEC. 1108. AUTHORITY TO PROVIDE ADDITIONAL ALLOW-**  
2 **ANCES AND BENEFITS FOR CERTAIN DE-**  
3 **FENSE CLANDESTINE SERVICE EMPLOYEES.**

4 *Section 1603 of title 10, United States Code, is amend-*  
5 *ed by adding at the end the following new subsection:*

6 *“(c) ADDITIONAL ALLOWANCES AND BENEFITS FOR*  
7 *CERTAIN EMPLOYEES OF THE DEFENSE CLANDESTINE*  
8 *SERVICE.—(1) Beginning on the date on which the Sec-*  
9 *retary of Defense submits the report under paragraph*  
10 *(3)(A), in addition to the authority to provide compensa-*  
11 *tion under subsection (a), the Secretary may provide a cov-*  
12 *ered employee allowances and benefits under paragraph (1)*  
13 *of section 9904 of title 5 without regard to the limitations*  
14 *in that section—*

15 *“(A) that the employee be assigned to activities*  
16 *outside the United States; or*

17 *“(B) that the activities to which the employee is*  
18 *assigned be in support of Department of Defense ac-*  
19 *tivities abroad.*

20 *“(2) The Secretary may not provide allowances and*  
21 *benefits under paragraph (1) to more than 125 covered em-*  
22 *ployees per year.*

23 *“(3)(A) The Secretary shall submit to the appropriate*  
24 *congressional committees a report containing a strategy ad-*  
25 *dressing the mission of the Defense Clandestine Service dur-*  
26 *ing the period covered by the most recent future-years de-*

1 *fense program submitted under section 221 of this title, in-*  
2 *cluding—*

3           “(i) *how such mission will evolve during such*  
4 *period;*

5           “(ii) *how the authority provided by paragraph*  
6 *(1) will assist the Secretary in carrying out such mis-*  
7 *sion; and*

8           “(iii) *an implementation plan for carrying out*  
9 *paragraph (1), including a projection of how much*  
10 *the amount of the allowances and benefits provided*  
11 *under such paragraph compare with the amount of*  
12 *the allowances and benefits provided before the date of*  
13 *the report.*

14           “(B) *Not later than December 31, 2020, and each year*  
15 *thereafter, the Secretary shall submit to the appropriate*  
16 *congressional committees a report, with respect to the fiscal*  
17 *year preceding the date on which the report is submitted—*

18           “(i) *identifying the number of covered employees*  
19 *for whom the Secretary provided allowances and ben-*  
20 *efits under paragraph (1); and*

21           “(ii) *evaluating the efficacy of such allowances*  
22 *and benefits in enabling the execution of the objectives*  
23 *of the Defense Intelligence Agency.*

24           “(C) *The reports under subparagraphs (A) and (B)*  
25 *may be submitted in classified form.*

1       “(4) *In this subsection:*

2               “(A) *The term ‘appropriate congressional com-*  
3       *mittees’ means—*

4                       “(i) *the congressional defense committees;*  
5       *and*

6                       “(ii) *the Permanent Select Committee on*  
7       *Intelligence of the House of Representatives and*  
8       *the Select Committee on Intelligence of the Sen-*  
9       *ate.*

10               “(B) *The term ‘covered employee’ means an em-*  
11       *ployee in a defense intelligence position who is as-*  
12       *signed to the Defense Clandestine Service at a loca-*  
13       *tion in the United States that the Secretary deter-*  
14       *mines has living costs equal to or higher than the Dis-*  
15       *trict of Columbia.”.*

16   **SEC. 1109. PROHIBITED PERSONNEL PRACTICES.**

17       (a) *IN GENERAL.*—*Section 2302 of title 5, United*  
18       *States Code, is amended by adding at the end the following:*

19               “(g)(1) *All protections afforded to an employee under*  
20       *subparagraphs (A), (B), and (D) of subsection (b)(1) shall*  
21       *be afforded, in the same manner and to the same extent,*  
22       *to an intern and an applicant for internship.*

23               “(2) *For purposes of the application of this subsection,*  
24       *a reference to an employee shall be considered a reference*  
25       *to an intern in—*

1           “(A) section 717 of the Civil Rights Act of 1964  
2           (42 U.S.C. 2000e–16);

3           “(B) sections 12 and 15 of the Age Discrimina-  
4           tion in Employment Act of 1967 (29 U.S.C. 631,  
5           633a); and

6           “(C) section 501 of the Rehabilitation Act of  
7           1973 (29 U.S.C. 791).

8           “(3) In this subsection, the term ‘intern’ means an in-  
9           dividual who performs uncompensated voluntary service in  
10          an agency to earn credit awarded by an educational insti-  
11          tution or to learn a trade or occupation.”.

12          (b) **CONFORMING AMENDMENT.**—Section 3111(c)(1) of  
13          title 5, United States Code, is amended by inserting “sec-  
14          tion 2302(g) (relating to prohibited personnel practices),”  
15          before “chapter 81”.

16          **SEC. 1110. ENHANCEMENT OF ANTIDISCRIMINATION PRO-**  
17          **TECTIONS FOR FEDERAL EMPLOYEES.**

18          (a) **SENSE OF CONGRESS.**—Section 102 of the Notifi-  
19          cation and Federal Employee Antidiscrimination and Re-  
20          taliation Act of 2002 (5 U.S.C. 2301 note) is amended—

21                  (1) in paragraph (4), to read as follows:

22                  “(4) accountability in the enforcement of Federal  
23                  employee rights is furthered when Federal agencies  
24                  take appropriate disciplinary action against Federal

1 *employees who have been found to have committed*  
2 *discriminatory or retaliatory acts;”*; and

3 *(2) in paragraph (5)(A)—*

4 *(A) by striking “nor is accountability” and*  
5 *inserting “but accountability is not”; and*

6 *(B) by inserting “for what by law the agen-*  
7 *cy is responsible” after “under this Act”.*

8 *(b) NOTIFICATION OF VIOLATION.—Section 202 of the*  
9 *Notification and Federal Employee Antidiscrimination and*  
10 *Retaliation Act of 2002 (5 U.S.C. 2301 note) is amended*  
11 *by adding at the end the following:*

12 *“(d) NOTIFICATION OF FINAL AGENCY ACTION.—*

13 *“(1) Not later than 30 days after a Federal*  
14 *agency takes final action or the Equal Employment*  
15 *Opportunity Commission issues an appellate decision*  
16 *involving a finding of discrimination or retaliation*  
17 *prohibited by a provision of law covered by para-*  
18 *graph (1) or (2) of section 201(a), as applicable, the*  
19 *head of the agency subject to the finding shall provide*  
20 *notice for at least 1 year on the agency’s internet*  
21 *website in a clear and prominent location linked di-*  
22 *rectly from the agency’s internet home page stating*  
23 *that a finding of discrimination or retaliation has*  
24 *been made.*

1           “(2) *The notification shall identify the date the*  
2 *finding was made, the date or dates on which the dis-*  
3 *criminatory or retaliatory act or acts occurred, and*  
4 *the law or laws violated by the discriminatory or re-*  
5 *taliatory act or acts. The notification shall also ad-*  
6 *vice Federal employees of the rights and protections*  
7 *available under the respective provisions of law cov-*  
8 *ered by paragraph (1) or (2) of section 201(a).”.*

9           (c) *REPORTING REQUIREMENTS.—*

10           (1) *ELECTRONIC FORMAT REQUIREMENT.—*

11           (A) *IN GENERAL.—Section 203(a) of the*  
12 *Notification and Federal Employee Anti-*  
13 *discrimination and Retaliation Act of 2002 (5*  
14 *U.S.C. 2301 note) is amended—*

15                   (i) *by inserting “Homeland Security*  
16 *and” before “Governmental Affairs”;*

17                   (ii) *by inserting “Oversight and” be-*  
18 *fore “Government Reform”;* and

19                   (iii) *by inserting “(in an electronic*  
20 *format prescribed by the Office of Personnel*  
21 *Management)” after “an annual report”.*

22           (B) *EFFECTIVE DATE.—The amendment*  
23 *made by paragraph (1)(C) shall take effect on*  
24 *the date that is 1 year after the date of enact-*  
25 *ment of this Act.*

1           (C) *TRANSITION PERIOD.*—Notwithstanding  
2           the requirements of section 203(a) of the Notifi-  
3           cation and Federal Employee Antidiscrimina-  
4           tion and Retaliation Act of 2002 (5 U.S.C. 2301  
5           note), the report required under such section may  
6           be submitted in an electronic format, as pre-  
7           scribed by the Office of Personnel Management,  
8           during the period beginning on the date of enact-  
9           ment of this Act and ending on the effective date  
10          in paragraph (2).

11          (2) *REPORTING REQUIREMENT FOR DISCIPLI-*  
12          *NARY ACTION.*—Section 203 of such Act is amended  
13          by adding at the end the following:

14          “(c) *DISCIPLINARY ACTION REPORT.*—Not later than  
15          60 days after the date on which a Federal agency takes final  
16          action or a Federal agency receives an appellate decision  
17          issued by the Equal Employment Opportunity Commission  
18          involving a finding of discrimination or retaliation in vio-  
19          lation of a provision of law covered by paragraph (1) or  
20          (2) of section 201(a), as applicable, the employing Federal  
21          agency shall submit to the Commission a report stating  
22          whether disciplinary action has been initiated against a  
23          Federal employee as a result of the violation.”.

24          (d) *DATA TO BE POSTED BY EMPLOYING FEDERAL*  
25          *AGENCIES.*—Section 301(b) of the Notification and Federal

1 *Employee Antidiscrimination and Retaliation Act of 2002*

2 *(5 U.S.C. 2301 note) is amended—*

3 *(1) in paragraph (9)—*

4 *(A) in subparagraph (A), by striking “and”*  
5 *at the end;*

6 *(B) in subparagraph (B)(ii), by striking the*  
7 *period at the end and inserting “, and”; and*

8 *(C) by adding at the end the following:*

9 *“(C) for each such finding counted under*  
10 *subparagraph (A), the agency shall specify—*

11 *“(i) the date of the finding;*

12 *“(ii) the affected agency;*

13 *“(iii) the law violated; and*

14 *“(iv) whether a decision has been made*  
15 *regarding necessary disciplinary action as*  
16 *a result of the finding.”; and*

17 *(2) by adding at the end the following:*

18 *“(11) Data regarding each class action com-*  
19 *plaint filed against the agency alleging discrimina-*  
20 *tion or retaliation, including—*

21 *“(A) information regarding the date on*  
22 *which each complaint was filed;*

23 *“(B) a general summary of the allegations*  
24 *alleged in the complaint;*

1           “(C) an estimate of the total number of  
2           plaintiffs joined in the complaint if known;

3           “(D) the current status of the complaint, in-  
4           cluding whether the class has been certified; and

5           “(E) the case numbers for the civil actions  
6           in which discrimination or retaliation has been  
7           found.”.

8           (e) *DATA TO BE POSTED BY THE EQUAL EMPLOYMENT*  
9 *OPPORTUNITY COMMISSION.*—Section 302(b) of the *Notifi-*  
10 *cation and Federal Employee Antidiscrimination and Re-*  
11 *taliation Act of 2002 (5 U.S.C. 2301 note)* is amended by  
12 striking “(10)” and inserting “(11)”.

13          (f) *NOTIFICATION AND FEDERAL EMPLOYEE ANTI-*  
14 *DISCRIMINATION AND RETALIATION ACT AMENDMENTS.*—

15           (1) *NOTIFICATION REQUIREMENTS.*—*The Notifi-*  
16 *cation and Federal Employee Antidiscrimination and*  
17 *Retaliation Act of 2002 (5 U.S.C. 2301 note)* is  
18 amended by adding after section 206 the following:

19 **“SEC. 207. COMPLAINT TRACKING.**

20           “Not later than 1 year after the date of enactment of  
21 the *Federal Employee Antidiscrimination Act of 2019*, each  
22 Federal agency shall establish a system to track each com-  
23 plaint of discrimination arising under section 2302(b)(1)  
24 of title 5, United States Code, and adjudicated through the  
25 Equal Employment Opportunity process from inception to

1 resolution of the complaint, including whether a decision  
2 has been made regarding necessary disciplinary action as  
3 the result of a finding of discrimination.

4 **“SEC. 208. NOTATION IN PERSONNEL RECORD.**

5 *“If a Federal agency takes an adverse action covered*  
6 *under section 7512 of title 5, United States Code, against*  
7 *a Federal employee for an act of discrimination or retali-*  
8 *ation prohibited by a provision of law covered by paragraph*  
9 *(1) or (2) of section 201(a), the agency shall, after all ap-*  
10 *peals relating to such action have been exhausted, include*  
11 *a notation of the adverse action and the reason for the ac-*  
12 *tion in the employee’s personnel record.”.*

13 (2) *PROCESSING AND REFERRAL.—The Notifica-*  
14 *tion and Federal Employee Antidiscrimination and*  
15 *Retaliation Act of 2002 (5 U.S.C. 2301 note) is*  
16 *amended by adding at the end the following:*

17 **“TITLE IV—PROCESSING AND**  
18 **REFERRAL**

19 **“SEC. 401. PROCESSING AND RESOLUTION OF COMPLAINTS.**

20 *“Each Federal agency is responsible for the fair, im-*  
21 *partial processing and resolution of complaints of employ-*  
22 *ment discrimination and retaliation arising in the Federal*  
23 *administrative process and shall establish a model Equal*  
24 *Employment Opportunity Program that—*

1           “(1) is not under the control, either structurally  
2           or practically, of a Human Capital or General Coun-  
3           sel office;

4           “(2) is devoid of internal conflicts of interest and  
5           ensures fairness and inclusiveness within the organi-  
6           zation; and

7           “(3) ensures the efficient and fair resolution of  
8           complaints alleging discrimination or retaliation.

9           **“SEC. 402. NO LIMITATION ON HUMAN CAPITAL OR GEN-  
10           ERAL COUNSEL ADVICE.**

11           *“Nothing in this title shall prevent a Federal agency’s  
12           Human Capital or General Counsel office from providing  
13           advice or counsel to Federal agency personnel on the proc-  
14           essing and resolution of a complaint, including providing  
15           legal representation to a Federal agency in any proceeding.*

16           **“SEC. 403. HEAD OF PROGRAM REPORTS TO HEAD OF AGEN-  
17           CY.**

18           *“The head of each Federal agency’s Equal Employ-  
19           ment Opportunity Program shall report directly to the head  
20           of the agency.*

21           **“SEC. 404. REFERRALS OF FINDINGS OF DISCRIMINATION.**

22           *“(a) EEOC FINDINGS OF DISCRIMINATION.—Not later  
23           than 30 days after the Equal Employment Opportunity  
24           Commission issues an appellate decision involving a find-  
25           ing of discrimination or retaliation within a Federal agen-*

1 *cy, the Commission shall refer the matter to the Office of*  
2 *Special Counsel.*

3 “(b) *REFERRALS TO SPECIAL COUNSEL.*—*The Office*  
4 *of Special Counsel shall accept and review a referral from*  
5 *the Commission under subsection (a) for purposes of seeking*  
6 *disciplinary action under its authority against a Federal*  
7 *employee who commits an act of discrimination or retali-*  
8 *ation.*

9 “(c) *NOTIFICATION.*—*The Office of Special Counsel*  
10 *shall notify the Commission in a case in which the Office*  
11 *of Special Counsel initiates disciplinary action.*

12 “(d) *SPECIAL COUNSEL APPROVAL.*—*A Federal agen-*  
13 *cy may not take disciplinary action against a Federal em-*  
14 *ployee for an alleged act of discrimination or retaliation*  
15 *referred by the Commission under this section except in ac-*  
16 *cordance with the requirements of section 1214(f) of title*  
17 *5, United States Code.”.*

18 (3) *CONFORMING AMENDMENTS.*—*The table of*  
19 *contents in section 1(b) of the Notification and Fed-*  
20 *eral Employee Antidiscrimination and Retaliation*  
21 *Act of 2002 (5 U.S.C. 2301 note) is amended—*

22 (A) *by inserting after the item relating to*  
23 *section 206 the following:*

“Sec. 207. *Complaint tracking.*

“Sec. 208. *Notation in personnel record.”;*

24 *and*

1 (B) by adding at the end the following:

“TITLE IV—PROCESSING AND REFERRAL

“Sec. 401. Processing and resolution of complaints.

“Sec. 402. No limitation on Human Capital or General Counsel advice.

“Sec. 403. Head of Program reports to head of agency.

“Sec. 404. Referrals of findings of discrimination.”.

2 (g) NONDISCLOSURE AGREEMENT LIMITATION.—Sec-  
3 tion 2302(b) of title 5, United States Code, is amended—

4 (1) in paragraph (13)—

5 (A) by inserting “or the Office of Special  
6 Counsel” after “Inspector General”;

7 (B) by striking “implement” and inserting  
8 “(A) implement”; and

9 (C) by striking the period that follows the  
10 quoted material and inserting “; or”; and

11 (2) by adding after subparagraph (A), as added  
12 by paragraph (1)(B), and preceding the flush left  
13 matter that follows paragraph (13), the following:

14 “(B) implement or enforce any nondisclo-  
15 sure policy, form, or agreement, if such policy,  
16 form, or agreement prohibits or restricts an em-  
17 ployee from disclosing to Congress, the Office of  
18 Special Counsel, or an Office of the Inspector  
19 General any information that relates to any vio-  
20 lation of any law, rule, or regulation, or mis-  
21 management, a gross waste of funds, an abuse of  
22 authority, or a substantial, and specific danger

1           to public health or safety, or any other whistle-  
2           blower protection.”.

3 **SEC. 1111. MODIFICATION OF DIRECT HIRE AUTHORITIES**  
4           **FOR THE DEPARTMENT OF DEFENSE.**

5           (a) *IN GENERAL.*—Section 9905 of title 5, United  
6 States Code, is amended—

7           (1) in subsection (a)—

8           (A) by amending paragraph (2) to read as  
9 follows:

10           “(2) Any cyber workforce position.”; and

11           (B) by adding after paragraph (4) the fol-  
12 lowing:

13           “(5) Any scientific, technical, engineering, or  
14 mathematics positions, including technicians, within  
15 the defense acquisition workforce, or any category of  
16 acquisition positions within the Department des-  
17 ignated by the Secretary as a shortage or critical need  
18 category.

19           “(6) Any scientific, technical, engineering, or  
20 mathematics position, except any such position with-  
21 in any defense Scientific and Technology Reinvention  
22 Laboratory, for which a qualified candidate is re-  
23 quired to possess a bachelor’s degree or an advanced  
24 degree, or for which a veteran candidate is being con-  
25 sidered.

1           “(7) *Any category of medical or health profes-*  
2           *sional positions within the Department designated by*  
3           *the Secretary as a shortage category or critical need*  
4           *occupation.*

5           “(8) *Any childcare services position for which*  
6           *there is a critical hiring need and a shortage of*  
7           *childcare providers.*

8           “(9) *Any financial management, accounting, au-*  
9           *ditng, actuarial, cost estimation, operational re-*  
10           *search, or business or business administration posi-*  
11           *tion, for which a qualified candidate is required to*  
12           *possess a finance, accounting, management or actu-*  
13           *arial science degree or a related degree, or a related*  
14           *degree equivalent experience.*

15           “(10) *Any position, as determined by the Sec-*  
16           *retary, for the purpose of assisting and facilitating*  
17           *the efforts of the Department in business trans-*  
18           *formation and management innovation.”; and*

19           (2) *by striking subsection (b) and inserting the*  
20           *following:*

21           “(b) *SUNSET.—*

22           “(1) *IN GENERAL.—Except as provided in para-*  
23           *graph (2), effective on September 30, 2025, the au-*  
24           *thority provided under subsection (a) shall expire.*

1           “(2) *EXCEPTION.*—Paragraph (1) shall not  
2           apply to the authority provided under subsection (a)  
3           to make appointments to positions described under  
4           paragraph (5) of such subsection.

5           “(c) *SUSPENSION OF OTHER HIRING AUTHORITIES.*—  
6           During the period beginning on the effective date of the reg-  
7           ulations issued to carry out the hiring authority with re-  
8           spect to positions described in paragraphs (5) through (10)  
9           of subsection (a) and ending on the date described in sub-  
10          section (b)(1), the Secretary of Defense may not exercise or  
11          otherwise use any hiring authority provided under the fol-  
12          lowing provisions of law:

13           “(1) Sections 1599c(a)(2) and 1705(h) of title  
14          10.

15           “(2) Sections 1112 and 1113 of the National De-  
16          fense Authorization Act for Fiscal Year 2016 (Public  
17          Law 114–92; 129 Stat. 1033).

18           “(3) Sections 1110 and 1643(a)(3) of the Na-  
19          tional Defense Authorization Act for Fiscal Year 2017  
20          (Public Law 114–328; 130 Stat. 2450 and 2602).

21           “(4) Sections 559 and 1101 of the National De-  
22          fense Authorization Act for Fiscal Year 2018 (Public  
23          Law 115–91).”.

24          (b) *REPORT.*—

1           (1) *IN GENERAL.*—Not later than February 1,  
2           2021, the Secretary of Defense, in coordination with  
3           the Director of the Office of Personnel Management,  
4           shall contract with a Federally funded research and  
5           development center to submit a report to the congres-  
6           sional defense committees and the Committee on Over-  
7           sight and Reform of the House of Representatives.

8           (2) *CONTENTS.*—The report required under  
9           paragraph (1) shall—

10           (A) assess and identify steps that could be  
11           taken to improve the competitive hiring process  
12           at the Department and ensure that direct hiring  
13           is conducted in a manner consistent with ensur-  
14           ing a merit based civil service and a diverse  
15           workforce in the Department and the rest of the  
16           Federal Government; and

17           (B) consider the feasibility and desirability  
18           of using cohort hiring, or hiring “talent pools”,  
19           instead of conducting all hiring on a position-  
20           by-position basis.

21           (3) *OTHER MATTERS.*—The Federally funded re-  
22           search and development center selected to carry out  
23           the report under this subsection shall, in preparing  
24           such report, consult with all stakeholders, public sec-  
25           tor unions, hiring managers, career agency, and Of-

1        *office of Personnel Management personnel specialists,*  
2        *and survey public sector employees and job appli-*  
3        *cants, when developing its analysis and recommenda-*  
4        *tions.*

5        **SEC. 1112. PERMITTED DISCLOSURES BY WHISTLE-**  
6        **BLOWERS.**

7        (a) *RECIPIENTS OF WHISTLEBLOWER DISCLO-*  
8        *SURES.—Section 2302(b)(8)(B) of title 5, United States*  
9        *Code, is amended by striking “or to the Inspector” and all*  
10       *that follows through “such disclosures” and inserting “the*  
11       *Inspector General of an agency, a supervisor in the employ-*  
12       *ee’s direct chain of command up to and including the head*  
13       *of the employing agency, or to an employee designated by*  
14       *any of the aforementioned individuals for the purpose of*  
15       *receiving such disclosures”.*

16       (b) *DETERMINATION OF BUDGETARY EFFECTS.—The*  
17       *budgetary effects of this section, for the purpose of com-*  
18       *plying with the Statutory Pay-As-You-Go Act of 2010, shall*  
19       *be determined by reference to the latest statement titled*  
20       *“Budgetary Effects of PAYGO Legislation” for this section,*  
21       *submitted for printing in the Congressional Record by the*  
22       *Chairman of the House Budget Committee, provided that*  
23       *such statement has been submitted prior to the vote on pas-*  
24       *sage.*

1    **TITLE XII—MATTERS RELATING**  
2            **TO FOREIGN NATIONS**  
3            **Subtitle A—Assistance and**  
4            **Training**

5    **SEC. 1201. MODIFICATION OF AUTHORITY TO BUILD CAPAC-**  
6            **ITY OF FOREIGN SECURITY FORCES.**

7            (a) *AUTHORITY.*—Subsection (a)(7) of section 333 of  
8    *title 10, United States Code, is amended by inserting “exist-*  
9    *ing” before “international coalition operation”.*

10          (b) *NOTICE AND WAIT ON ACTIVITIES UNDER PRO-*  
11    *GRAMS.*—Subsection (e) of such section is amended by add-  
12    *ing at the end the following:*

13                  *“(9) In the case of a program described in sub-*  
14    *section (a)(7), each of the following:*

15                          *“(A) A description of whether assistance*  
16    *under the program could be provided pursuant*  
17    *to other authorities under this title, the Foreign*  
18    *Assistance Act of 1961, or any other train and*  
19    *equip authorities of the Department of Defense.*

20                          *“(B) An identification of each such author-*  
21    *ity described in subparagraph (A).”.*

1 **SEC. 1202. MODIFICATION AND EXTENSION OF CROSS SERV-**  
2 **ICING AGREEMENTS FOR LOAN OF PER-**  
3 **SONNEL PROTECTION AND PERSONNEL SUR-**  
4 **VIVABILITY EQUIPMENT IN COALITION OPER-**  
5 **ATIONS.**

6 *Section 1207 of the Carl Levin and Howard P. “Buck”*  
7 *McKeon National Defense Authorization Act for Fiscal Year*  
8 *2015 (10 U.S.C. 2342 note) is amended—*

9 *(1) by redesignating subsections (d) and (e) as*  
10 *subsections (e) and (f), respectively;*

11 *(2) by inserting after subsection (c) the fol-*  
12 *lowing:*

13 *“(d) REPORTS TO CONGRESS.—If the authority pro-*  
14 *vided under this section is exercised during a fiscal year,*  
15 *the Secretary of Defense shall, with the concurrence of the*  
16 *Secretary of State, submit to the appropriate committees*  
17 *of Congress a report on the exercise of such authority by*  
18 *not later than October 30 of the year in which such fiscal*  
19 *year ends. Each report on the exercise of such authority*  
20 *shall specify the recipient country of the equipment loaned,*  
21 *the type of equipment loaned, and the duration of the loan*  
22 *of such equipment.”; and*

23 *(3) in subsection (f), as redesignated, by striking*  
24 *“September 30, 2019” and inserting “December 31,*  
25 *2024”.*

1 **SEC. 1203. MODIFICATION OF QUARTERLY REPORT ON OB-**  
2 **LIGATION AND EXPENDITURE OF FUNDS FOR**  
3 **SECURITY COOPERATION PROGRAMS AND AC-**  
4 **TIVITIES.**

5 *Section 381(b) of title 10, United States Code, is*  
6 *amended by striking “30 days” and inserting “60 days”.*

7 **SEC. 1204. INTEGRATION OF GENDER PERSPECTIVES AND**  
8 **MEANINGFUL PARTICIPATION BY WOMEN IN**  
9 **SECURITY COOPERATION AUTHORITIES.**

10 *Section 333(c)(3) of title 10, United States Code, is*  
11 *amended—*

12 *(1) in the heading, by inserting “THE INTEGRA-*  
13 *TION OF GENDER PERSPECTIVES AND MEANINGFUL*  
14 *PARTICIPATION BY WOMEN,” after “FUNDAMENTAL*  
15 *FREEDOMS,”; and*

16 *(2) in the text, by inserting “the integration of*  
17 *gender perspectives and meaningful participation by*  
18 *women,” after “fundamental freedoms,”.*

19 ***Subtitle B—Matters Relating to***  
20 ***Afghanistan and Pakistan***

21 **SEC. 1211. EXTENSION AND MODIFICATION OF AUTHORITY**  
22 **FOR REIMBURSEMENT OF CERTAIN COALI-**  
23 **TION NATIONS FOR SUPPORT PROVIDED TO**  
24 **UNITED STATES MILITARY OPERATIONS.**

25 *(a) EXTENSION.—Subsection (a) of section 1233 of the*  
26 *National Defense Authorization Act for Fiscal Year 2008*

1 *(Public Law 110– 181; 122 Stat. 393) is amended in the*  
2 *matter preceding paragraph (1) by striking “October 1,*  
3 *2018, and ending on December 31, 2019” and inserting*  
4 *“October 1, 2019, and ending on December 31, 2020”.*

5 *(b) MODIFICATION TO LIMITATION.—Subsection (d)(1)*  
6 *of such section is amended—*

7 *(1) by striking “October 1, 2018, and ending on*  
8 *December 31, 2019” and inserting “October 1, 2019,*  
9 *and ending on December 31, 2020”; and*

10 *(2) by striking “\$350,000,000” and inserting*  
11 *“\$450,000,000”.*

12 **SEC. 1212. MODIFICATION AND EXTENSION OF AFGHAN**  
13 **SPECIAL IMMIGRANT VISA PROGRAM.**

14 *(a) PRINCIPAL ALIENS.—Subclause (I) of section*  
15 *602(b)(2)(A)(ii) of the Afghan Allies Protection Act of 2009*  
16 *(8 U.S.C. 1101 note) is amended to read as follows:*

17 *“(I) by, or on behalf of, the*  
18 *United States Government; or”.*

19 *(b) EXTENSION OF AFGHAN SPECIAL IMMIGRANT PRO-*  
20 *GRAM.—Section 602(b)(3)(F) of the Afghan Allies Protec-*  
21 *tion Act of 2009 (8 U.S.C. 1101 note) is amended—*

22 *(1) in the heading, by striking “2015, 2016, AND*  
23 *2017” and inserting “2015 THROUGH 2020”;*

24 *(2) in the matter preceding clause (i), by strik-*  
25 *ing “18,500” and inserting “18,800”;*

1           (3) *in clause (i), by striking “December 31,*  
2           *2020” and inserting “December 31, 2021”; and*

3           (4) *in clause (ii), by striking “December 31,*  
4           *2020” and inserting “December 31, 2021”.*

5 **SEC. 1213. EXTENSION OF AUTHORITY TO TRANSFER DE-**  
6           **ENSE ARTICLES AND PROVIDE DEFENSE**  
7           **SERVICES TO THE MILITARY AND SECURITY**  
8           **FORCES OF AFGHANISTAN.**

9           (a) *EXTENSION OF AUTHORITY.*—*Subsection (h) of sec-*  
10 *tion 1222 of the National Defense Authorization Act for Fis-*  
11 *cal Year 2013 (Public Law 112–239; 126 Stat. 1992) is*  
12 *amended by striking “December 31, 2020” and inserting*  
13 *“December 31, 2022”.*

14          (b) *EXCESS DEFENSE ARTICLES.*—*Subsection (i)(2) of*  
15 *such section is amended by striking “December 31, 2020”*  
16 *each place it appears and inserting “December 31, 2022”.*

17 **SEC. 1214. EXTENSION AND MODIFICATION OF AUTHORITY**  
18           **TO ACQUIRE PRODUCTS AND SERVICES PRO-**  
19           **DUCED IN COUNTRIES ALONG A MAJOR**  
20           **ROUTE OF SUPPLY TO AFGHANISTAN.**

21          (a) *TERMINATION OF AUTHORITY.*—*Subsection (f) of*  
22 *section 801 of the National Defense Authorization Act for*  
23 *Fiscal Year 2010 (Public Law 111–84; 123 Stat. 2399) is*  
24 *amended by striking “December 31, 2019” and inserting*  
25 *“December 31, 2021”.*

1       (b) *REPORT ON AUTHORITY.*—Such section, as so  
2 amended, is further amended by adding at the end the fol-  
3 lowing:

4       “(g) *REPORT ON AUTHORITY.*—

5               “(1) *IN GENERAL.*—Not later than March 1,  
6 2020, and March 1, 2021, the Secretary of Defense  
7 shall submit to the appropriate congressional commit-  
8 tees a report on the use of the authority provided in  
9 subsection (a). The report shall address, at a min-  
10 imum, the following:

11                       “(A) *The number of determinations made*  
12 *by the Secretary pursuant to subsection (b).*

13                       “(B) *A description of the products and serv-*  
14 *ices acquired using the authority.*

15                       “(C) *The extent to which the use of the au-*  
16 *thority has met the objectives of subparagraph*  
17 *(A), (B), or (C) of subsection (b)(2).*

18                       “(D) *A list of the countries providing prod-*  
19 *ucts or services as a result of a determination*  
20 *made pursuant to subsection (b).*

21       “(2) *APPROPRIATE CONGRESSIONAL COMMITTEES*  
22 *DEFINED.*—For purposes of this subsection, the term  
23 ‘appropriate congressional committees’ means—

24                       “(A) *the congressional defense committees;*  
25                       *and*

1           “(B) the Committee on Foreign Affairs of  
2           the House of Representatives and the Committee  
3           on Foreign Relations of the Senate.”.

4 **SEC. 1215. AUTHORITY FOR CERTAIN PAYMENTS TO RE-**  
5           **DRESS INJURY AND LOSS IN AFGHANISTAN,**  
6           **IRAQ, SYRIA, SOMALIA, LIBYA, AND YEMEN.**

7           (a) *AUTHORITY.*—During the period beginning on the  
8           date of the enactment of this Act and ending on December  
9           31, 2020, not more than \$5,000,000, to be derived from  
10          funds authorized to be appropriated to the Office of the Sec-  
11          retary of Defense under the Operation and Maintenance,  
12          Defense-wide account, may be made available for *ex gratia*  
13          payments for damage, personal injury, or death that is in-  
14          cident to combat operations of the United States Armed  
15          Forces in Afghanistan, Iraq, Syria, Somalia, Libya, and  
16          Yemen.

17          (b) *NOTICE.*—The Secretary of Defense shall, upon  
18          each exercise of the authority in this subsection, submit to  
19          the congressional defense committees a report setting forth  
20          the following:

21                 (1) *The amount that will be used for payments*  
22                 *pursuant to this subsection.*

23                 (2) *The manner in which claims for payments*  
24                 *shall be verified.*

1           (3) *The officers or officials who shall be author-*  
2           *ized to approve claims for payments.*

3           (4) *The manner in which payments shall be*  
4           *made.*

5           (c) *AUTHORITIES APPLICABLE TO PAYMENT.—Any*  
6           *payment made pursuant to this subsection shall be made*  
7           *in accordance with the authorities and limitations in sec-*  
8           *tion 8121 of the Department of Defense Appropriations Act,*  
9           *2015 (division C of Public Law 113–235), other than sub-*  
10          *section (h) of such section.*

11 **SEC. 1216. EXTENSION OF SEMIANNUAL REPORT ON EN-**  
12                           **HANCING SECURITY AND STABILITY IN AF-**  
13                           **GHANISTAN.**

14          *Section 1225 of the Carl Levin and Howard P. “Buck”*  
15          *McKeon National Defense Authorization Act for Fiscal Year*  
16          *2015 (Public Law 113–291; 128 Stat. 3558) is amended—*

17                   (1) *in subsection (a)—*

18                           (A) *in paragraph (2), by striking “Decem-*  
19                           *ber 15, 2020” and inserting “December 15,*  
20                           *2022”; and*

21                           (B) *by amending paragraph (3) to read as*  
22                           *follows:*

23                           “(3) *FORM.—Each report required under para-*  
24                           *graph (1) shall be submitted in unclassified form*

1 *without any designation relating to dissemination*  
2 *control, but may include a classified annex.”; and*

3 *(2) in subsection (b)—*

4 *(A) by inserting “, to include the progress*  
5 *of the Government of Afghanistan on securing*  
6 *Afghan territory and population,” after “the*  
7 *current security conditions in Afghanistan”; and*

8 *(B) by striking “and the Haqqani Network”*  
9 *and inserting “the Haqqani Network, and the Is-*  
10 *lamic State of Iraq and Syria Khorasan”.*

11 ***Subtitle C—Matters Relating to***  
12 ***Syria, Iraq, and Iran***

13 ***SEC. 1221. MODIFICATION OF AUTHORITY TO PROVIDE AS-***  
14 ***SISTANCE TO COUNTER THE ISLAMIC STATE***  
15 ***OF IRAQ AND SYRIA.***

16 *(a) LIMITATION ON AVAILABILITY OF AUTHORITY.—*

17 *Of the amounts made available for fiscal year 2020 pursu-*  
18 *ant to the authorization in section 1236 of the Carl Levin*  
19 *and Howard P. “Buck” McKeon National Defense Author-*  
20 *ization Act for Fiscal Year 2015 (Public Law 113–291; 128*  
21 *Stat. 3558), as amended by this section, not more than 70*  
22 *percent may be obligated or expended until the date on*  
23 *which the Secretary of Defense submits to the congressional*  
24 *defense committees, the Committee on Foreign Affairs of the*  
25 *House of Representatives, and the Committee on Foreign*

1 *Relations of the Senate a report in unclassified form, that*  
2 *may include a classified annex, that includes each of the*  
3 *following:*

4           (1) *Any updates to or changes in the plan, strat-*  
5 *egy, process, vetting requirements and process as de-*  
6 *scribed in subsection (e) of such section 1236, and*  
7 *end-use monitoring mechanisms and procedures.*

8           (2) *A description of how attacks against United*  
9 *States or coalition personnel are being mitigated, sta-*  
10 *tistics on any such attacks, including “green-on-blue”*  
11 *attacks.*

12           (3) *A description of the forces receiving assist-*  
13 *ance authorized under subsection (a) of such section*  
14 *1236.*

15           (4) *A description of the recruitment, throughput,*  
16 *and retention rates of recipients and equipment.*

17           (5) *A description of any misuse or loss of pro-*  
18 *vided equipment and how such misuse or loss is being*  
19 *mitigated.*

20           (6) *An assessment of the operational effectiveness*  
21 *of the forces receiving assistance authorized under*  
22 *subsection (a) of such section 1236.*

23           (7) *A description of sustainment support pro-*  
24 *vided to the forces authorized under subsection (a) of*  
25 *such section 1236.*

1           (8) *A list of new projects for construction, re-*  
2 *pair, or renovation commenced during the period cov-*  
3 *ered by such progress report, and a list of projects for*  
4 *construction, repair, or renovation continuing from*  
5 *the period covered by the preceding progress report.*

6           (9) *A statement of the amount of funds expended*  
7 *during the period for which the report is submitted.*

8           (10) *An assessment of the effectiveness of the as-*  
9 *sistance authorized under subsection (a) of such sec-*  
10 *tion 1236.*

11           (11) *A list of the forces or elements of forces that*  
12 *are restricted from receiving assistance under sub-*  
13 *section (a) of such section 1236, other than the forces*  
14 *or elements of forces with respect to which the Sec-*  
15 *retary of Defense has exercised the waiver authority*  
16 *under subsection (j) of such section 1236, as a result*  
17 *of vetting required by subsection (e) of such section*  
18 *1236 or by section 2249e of title 10, United States*  
19 *Code, and a detailed description of the reasons for*  
20 *such restriction, including for each force or element,*  
21 *as applicable, the following:*

22                   (A) *Information relating to gross violation*  
23 *of human rights committed by such force or ele-*  
24 *ment, including the time-frame of the alleged*  
25 *violation.*

1           (B) *The source of the information described*  
2 *in subparagraph (A) and an assessment of the*  
3 *veracity of the information.*

4           (C) *The association of such force or element*  
5 *with terrorist groups or groups associated with*  
6 *the Government of Iran.*

7           (D) *The amount and type of any assistance*  
8 *provided to such force or element by the Govern-*  
9 *ment of Iran.*

10       (12) *An assessment of—*

11           (A) *security in liberated areas in Iraq;*

12           (B) *the extent to which security forces*  
13 *trained and equipped, directly or indirectly, by*  
14 *the United States are prepared to provide post-*  
15 *conflict stabilization and security in such liber-*  
16 *ated areas; and*

17           (C) *the effectiveness of security forces in the*  
18 *post-conflict environment and an identification*  
19 *of which such forces will provide post-conflict*  
20 *stabilization and security in such liberated*  
21 *areas.*

22       (13) *A summary of available information relat-*  
23 *ing to the disposition of militia groups throughout*  
24 *Iraq, with particular focus on groups in areas liber-*

1        *ated from ISIS or in sensitive areas with historically*  
2        *mixed ethnic or minority communities.*

3        (b) *FUNDING.*—Subsection (g) of section 1236 of the  
4 *Carl Levin and Howard P. “Buck” McKeon National De-*  
5 *fense Authorization Act for Fiscal Year 2015 (Public Law*  
6 *113–291; 128 Stat. 3558) is amended—*

7            (1) *by striking “fiscal year 2019” and inserting*  
8            *“fiscal year 2020”; and*

9            (2) *by striking “\$850,000,000” and inserting*  
10          *“\$663,000,000”.*

11        (c) *MODIFICATION OF ELEMENTS IN QUARTERLY*  
12 *PROGRESS REPORTS.*—Subsection (d) of such section 1236  
13 *is amended—*

14            (1) *in paragraph (11), by striking “section*  
15 *2249e of title 10, United States Code” and inserting*  
16 *“section 362 of title 10, United States Code”; and*

17            (2) *by adding at the end the following new para-*  
18 *graph:*

19            *“(13) A summary of available information relat-*  
20 *ing to the disposition of militia groups throughout*  
21 *Iraq, with particular focus on groups in areas liber-*  
22 *ated from ISIS or in sensitive areas with historically*  
23 *mixed ethnic or minority communities.”.*

24        (d) *CLARIFICATION WITH RESPECT TO SCOPE OF AU-*  
25 *THORITY.*—



1           cluding units of the Syrian Democratic  
2           Forces and their associated counter-ter-  
3           rorism units,” after “elements of the Syrian  
4           opposition”; and

5                   (ii) by striking “December 31, 2019”  
6           and inserting “December 31, 2020”.

7           (B) in paragraph (1), by inserting “or pre-  
8           viously controlled by ISIL” after “Syrian oppo-  
9           sition”.

10          (2) By amending subsection (b) to read as fol-  
11       lows:

12       “(b) NOTICE BEFORE PROVISION OF ASSISTANCE.—  
13       Not later than 15 days prior to each instance of the provi-  
14       sion of assistance under subsection (a), the Secretary of De-  
15       fense, in coordination with the Secretary of State, shall sub-  
16       mit to the appropriate congressional committees and leader-  
17       ship of the House of Representatives and Senate a notifica-  
18       tion that includes the following:

19               “(1) The plan for providing the assistance.

20               “(2) The requirements and process used to deter-  
21       mine appropriately vetted recipients with respect to  
22       the assistance.

23               “(3) The mechanisms and procedures that will be  
24       used to monitor and report to the appropriate con-  
25       gressional committees and leadership of the House of

1 *Representatives and Senate on unauthorized end-use*  
2 *of provided training and equipment or other viola-*  
3 *tions of relevant law by appropriately vetted recipi-*  
4 *ents.*

5 “(4) *The amount, type, and purpose of assist-*  
6 *ance to be funded and the recipient of the assistance.*

7 “(5) *The budget and implementation timeline,*  
8 *with milestones and anticipated delivery schedule for*  
9 *the assistance.*

10 “(6) *A description of any material use of assist-*  
11 *ance previously provided under subsection (a) to any*  
12 *appropriately vetted recipient of such assistance for a*  
13 *purpose other than the purposes specified in sub-*  
14 *section (a) that occurred since the most recent notifi-*  
15 *cation submitted by the Secretary pursuant to this*  
16 *subsection, with a specific description of the following:*

17 “(A) *The details of such material misuse.*

18 “(B) *The recipient or recipients responsible*  
19 *for such material misuse.*

20 “(C) *The consequences of such material mis-*  
21 *use.*

22 “(D) *The actions taken by the Secretary to*  
23 *remedy the causes and effects of such material*  
24 *misuse.*

25 “(7) *The goals and objectives of the assistance.*

1           “(8) *The concept of operations, timelines, and*  
2           *types of training, equipment, stipends, sustainment,*  
3           *construction, and supplies to be provided.*

4           “(9) *The roles and contributions of partner na-*  
5           *tions.*

6           “(10) *The number and role of United States*  
7           *Armed Forces personnel involved.*

8           “(11) *Any additional military support and*  
9           *sustainment activities.*

10          “(12) *Any other relevant details.*”.

11          (3) *By amending subsection (c) to read as fol-*  
12          *lows:*

13          “(c) *FORM.—The notifications required by subsection*  
14          *(b) shall be submitted in unclassified form but may include*  
15          *a classified annex.*”.

16          (4) *By striking subsection (f) and inserting the*  
17          *following:*

18          “(f) *RESTRICTION ON SCOPE OF ASSISTANCE IN THE*  
19          *FORM OF WEAPONS.—*

20          “(1) *IN GENERAL.—The Secretary may only pro-*  
21          *vide assistance in the form of weapons pursuant to*  
22          *the authority under subsection (a) if such weapons*  
23          *are small arms, including handguns, rifles and car-*  
24          *bines, sub-machine guns, or light machine guns.*

1           “(2) *WAIVER.*—*The Secretary may waive the re-*  
2           *striction under paragraph (1) if the Secretary cer-*  
3           *tifies to the appropriate congressional committees that*  
4           *such provision of law would (but for the waiver) im-*  
5           *pede national security objectives of the United States*  
6           *by prohibiting, restricting, delaying, or otherwise lim-*  
7           *iting the provision of assistance. Such waiver shall*  
8           *not take effect until 15 days after the date on which*  
9           *such certification is submitted to the appropriate con-*  
10           *gressional committees.”.*

11           (5) *In subsection (g)—*

12                   (A) *by inserting “, at the end of the 15-day*  
13                   *period beginning on the date the Secretary noti-*  
14                   *fies the congressional defense committees of the*  
15                   *amount, source, and intended purpose of such*  
16                   *contributions” after “as authorized by this sec-*  
17                   *tion”; and*

18                   (B) *by striking “operation and mainte-*  
19                   *nance accounts” and all that follows through the*  
20                   *end of the subsection and inserting “accounts.”.*

21           (6) *In subsection (k), by inserting “, at the end*  
22           *of the 15-day period beginning on the date the Sec-*  
23           *retary notifies the congressional defense committees of*  
24           *the amount, recipient, and intended purpose of such*  
25           *assistance” after “authorized under this section”.*

1           (7) *In subsection (l)—*

2                   (A) *by striking “\$10,000,000” and inserting*  
3                   *“\$20,000,000”;*

4                   (B) *by adding at the end the following new*  
5                   *sentence: “Amounts accepted as contributions*  
6                   *pursuant to the authority in subsection (g) for*  
7                   *construction and repair projects may be ex-*  
8                   *pended without regard to the limitation under*  
9                   *this subsection.”;*

10                  (C) *by striking “REPAIR PROJECTS.—The*  
11                  *aggregate” and inserting . “REPAIR*  
12                  *PROJECTS.—*

13                  *“(1) IN GENERAL.—The aggregate”;* and

14                  (D) *by adding at the end the following:*

15                  “(2) *WAIVER.—The Secretary may waive the*  
16                  *limitation under paragraph (1) if the Secretary cer-*  
17                  *tifies to the appropriate congressional committees that*  
18                  *such provision of law would (but for the waiver) im-*  
19                  *pede national security objectives of the United States*  
20                  *by prohibiting, restricting, delaying, or otherwise lim-*  
21                  *iting the provision of assistance. Such waiver shall*  
22                  *not take effect until 15 days after the date on which*  
23                  *such certification is submitted to the appropriate con-*  
24                  *gressional committees.”.*

25                  (8) *By striking subsection (j).*

1           (9) *By redesignating subsections (k) through (m)*  
2           *(as amended by this subsection) as subsections (j)*  
3           *through (l), respectively.*

4           (b) *EFFECTIVE DATE AND AVAILABILITY OF AUTHOR-*  
5 *ITY.—*

6           (1) *IN GENERAL.—The amendments made by*  
7           *subsection (a) shall take effect on the date of the en-*  
8           *actment of this section.*

9           (2) *AVAILABILITY OF AUTHORITY.—Notwith-*  
10          *standing paragraph (1), the Secretary may not pro-*  
11          *vide assistance pursuant to the authority provided by*  
12          *section 1209 of the Carl Levin and Howard P.*  
13          *“Buck” McKeon National Defense Authorization Act*  
14          *for Fiscal Year 2015 (Public Law 113–291; 128 Stat.*  
15          *3559), as amended by subsection (a) of this section,*  
16          *during the period beginning on January 1, 2020, and*  
17          *ending on the date on which each quarterly report re-*  
18          *quired to be submitted pursuant to subsection (d) of*  
19          *such section 1209, as of the date of the enactment of*  
20          *this section, has been submitted.*

1 **SEC. 1223. EXTENSION AND MODIFICATION OF AUTHORITY**  
2 **TO SUPPORT OPERATIONS AND ACTIVITIES**  
3 **OF THE OFFICE OF SECURITY COOPERATION**  
4 **IN IRAQ.**

5 (a) *EXTENSION OF AUTHORITY.*—Subsection (f)(1) of  
6 section 1215 of the National Defense Authorization Act for  
7 Fiscal Year 2012 (10 U.S.C. 113 note) is amended by strik-  
8 ing “fiscal year 2019” and inserting “fiscal year 2020”.

9 (b) *AMOUNT AVAILABLE.*—Such section is further  
10 amended—

11 (1) in subsection (c), by striking “fiscal year  
12 2019” and inserting “fiscal year 2020”; and

13 (2) in subsection (d), by striking “fiscal year  
14 2019” and inserting “fiscal year 2020”.

15 (c) *LIMITATION ON AVAILABILITY OF FUNDS.*—Of the  
16 amount available for fiscal year 2020 for section 1215 of  
17 the National Defense Authorization Act for Fiscal Year  
18 2012, as amended by this section, not more than an amount  
19 equal to 50 percent may be obligated or expended for the  
20 Office of Security Cooperation in Iraq until the date on  
21 which the Secretary of Defense certifies to the congressional  
22 defense committees, the Committee on Foreign Affairs of the  
23 House of Representatives, and the Committee on Foreign  
24 Relations of the Senate, that each of the following reforms  
25 relating to that Office has been completed:

1           (1) *The appointment of a Senior Defense Offi-*  
2           *cial/Defense Attache to oversee the Office.*

3           (2) *The development of a Joint Service staffing*  
4           *plan to reorganize the Office similar to that of other*  
5           *security cooperation offices in the region, that places*  
6           *foreign area officers in key leadership positions and*  
7           *closes duplicative or extraneous sections.*

8           (3) *The planning and initiation of bilateral en-*  
9           *gagement with the Government of Iraq for the purpose*  
10          *of establishing a Joint Military Commission and the*  
11          *initiation and drafting of a five-year security assist-*  
12          *ance roadmap for developing strategic and sustain-*  
13          *able military capacity and capabilities for Iraq that*  
14          *includes a plan to reform Iraq's defense industrial*  
15          *base and security sector by reducing corruption and*  
16          *optimizing procurement.*

17 **SEC. 1224. PROHIBITION ON PROVISION OF WEAPONS AND**  
18                           **OTHER FORMS OF SUPPORT TO CERTAIN OR-**  
19                           **GANIZATIONS.**

20          *None of the funds authorized to be appropriated by this*  
21          *Act or otherwise made available to the Department of De-*  
22          *fense for fiscal year 2020 may be used to knowingly provide*  
23          *weapons or any other form of support to Al Qaeda, the Is-*  
24          *lamic State of Iraq and Syria (ISIS), Jabhat Fateh al*

1 *Sham, or any individual or group affiliated with any such*  
2 *organization.*

3 **SEC. 1225. RULE OF CONSTRUCTION RELATING TO USE OF**  
4 **MILITARY FORCE AGAINST IRAN.**

5 *Nothing in this Act or any amendment made by this*  
6 *Act may be construed to authorize the use of military force*  
7 *against Iran.*

8 **SEC. 1226. SENSE OF CONGRESS ON SUPPORT FOR MIN-**  
9 **ISTRY OF PESHMERGA FORCES OF THE**  
10 **KURDISTAN REGION OF IRAQ.**

11 *It is the sense of Congress that—*

12 *(1) the United States led coalition and coalition*  
13 *enabled partner forces, including Ministry of*  
14 *Peshmerga forces of the Kurdistan Region of Iraq and*  
15 *Iraqi Security Forces (ISF), have made significant*  
16 *gains in liberating all territory in Iraq from Islamic*  
17 *State of Iraq and Syria (ISIS) control and dis-*  
18 *rupting ISIS safe havens and networks;*

19 *(2) nevertheless, ISIS is regenerating key func-*  
20 *tions and capabilities in Iraq, and ISIS elements will*  
21 *continue to exist in Iraq for the foreseeable future;*

22 *(3) ISIS will attempt to rebuild combat power*  
23 *through clandestine networks providing sanctuary,*  
24 *and ISIS will continue to attempt to conduct insur-*  
25 *gent-type activities while simultaneously recruiting*

1 *and training fighters, establishing facilitation net-*  
2 *works, and attempting to remain relevant in the in-*  
3 *formation domain;*

4 *(4) the Ministry of Peshmerga forces of the*  
5 *Kurdistan Region of Iraq made significant contribu-*  
6 *tions and sacrifices in the United States-led cam-*  
7 *paign to degrade, dismantle, and destroy ISIS; and*

8 *(5) the Department of Defense and the Depart-*  
9 *ment of State should continue to work with and sup-*  
10 *port the non-partisan forces of the Ministry of*  
11 *Peshmerga of the Kurdistan Region of Iraq in order*  
12 *to continue to develop their capabilities, promote se-*  
13 *curity sector reforms, and enhance sustainability and*  
14 *interoperability with the other elements of the Iraqi*  
15 *security forces in order to provide for Iraq's lasting*  
16 *security against terrorist threats.*

17 ***Subtitle D—Matters Relating to***  
18 ***Russia***

19 ***SEC. 1231. PROHIBITION ON THE USE OF FUNDS TO SUS-***  
20 ***PEND, TERMINATE, OR WITHDRAW THE***  
21 ***UNITED STATES FROM THE OPEN SKIES***  
22 ***TREATY.***

23 *(a) FINDINGS.—Congress finds the following:*

24 *(1) Since 1992, the United States has supported*  
25 *the Open Skies Treaty with dedicated aircraft and ob-*

1 *servation mission teams, conducting several hundred*  
2 *training and observation missions with other coun-*  
3 *tries.*

4 (2) *This commitment by the United States has*  
5 *helped to confirm and refine operational procedures,*  
6 *to improve implementation and effectiveness of the*  
7 *Open Skies Treaty, and provide United States leader-*  
8 *ship and engagement opportunities that have sup-*  
9 *ported broader objectives and improved European*  
10 *transparency.*

11 (3) *The Open Skies Treaty provides signatories*  
12 *with the ability to gather information through aerial*  
13 *imaging on military forces and activities of concern*  
14 *to them which contributes to greater transparency*  
15 *and stability in the Euro-Atlantic region, which bene-*  
16 *fits both the United States and United States allies*  
17 *and partners.*

18 (4) *In order to maximize United States benefits*  
19 *from the Open Skies Treaty, the United States needs*  
20 *to recapitalize and modernize its aircraft and sensors,*  
21 *and the ongoing work to certify the Digital Visual*  
22 *Imaging System and the new effort for the Open*  
23 *Skies Treaty Aircraft Recapitalization (OSTAR) are*  
24 *critical to United States leadership and involvement*  
25 *in the Treaty.*

1           (5) *The current 1960s-era United States aircraft*  
2 *used with respect to the Open Skies Treaty are ill-*  
3 *suited to extreme operating environments in Russia*  
4 *and experience regular, unplanned maintenance*  
5 *issues, often resulting in mission delays or cancella-*  
6 *tions.*

7           (6) *The OSTAR effort will provide a United*  
8 *States aircraft capability that allows the United*  
9 *States to fully implement the goals and objectives of*  
10 *the Open Skies Treaty.*

11           (7) *The United States also demonstrated in De-*  
12 *cember 2018, along with United States allies of Can-*  
13 *ada, the United Kingdom, France, Germany, and Ro-*  
14 *mania, that Open Skies Treaty mechanisms can be*  
15 *used during times of crisis.*

16           (8) *Following Russia’s unprovoked attack on*  
17 *Ukrainian vessels near the Kerch Strait, the United*  
18 *States and United States allies conducted an “ex-*  
19 *traordinary” Open Skies Treaty observation mission*  
20 *over Ukraine to reaffirm commitment to Ukraine.*

21           (b) *SENSE OF CONGRESS.—It is the sense of Congress*  
22 *that—*

23           (1) *the United States should forcefully address*  
24 *Russian violations of its obligations under the Open*  
25 *Skies Treaty; and*

1           (2) *due to the significant benefits that observa-*  
2 *tion missions under the Open Skies Treaty provide to*  
3 *the United States and United States allies, the United*  
4 *States should commit to continued participation in*  
5 *the Treaty.*

6           (c) *PROHIBITION.—*

7           (1) *IN GENERAL.—Except as provided in para-*  
8 *graph (2), none of the funds authorized to be appro-*  
9 *priated by this Act or otherwise made available to the*  
10 *Department of Defense for fiscal year 2020 may be*  
11 *obligated or expended to take any action to suspend,*  
12 *terminate, or withdraw the United States from the*  
13 *Open Skies Treaty.*

14           (2) *EXCEPTION.—The prohibition in paragraph*  
15 *(1) shall not apply if the Secretary of Defense and the*  
16 *Secretary of State jointly determine and certify to the*  
17 *congressional defense committees, the Committee on*  
18 *Foreign Affairs of the House of Representatives, and*  
19 *the Committee on Foreign Relations of the Senate,*  
20 *that—*

21           (A) *Russia is in material breach of its obli-*  
22 *gations under the Open Skies Treaty and is not*  
23 *taking steps to return to compliance with such*  
24 *obligations, and all other state parties to the*

1           *Open Skies Treaty concur in such determination*  
2           *of the Secretaries; or*

3                     *(B) withdrawing from the Open Skies Trea-*  
4                     *ty would be in the best interests of United States*  
5                     *national security and the other state parties to*  
6                     *the Open Skies Treaty have been consulted with*  
7                     *respect to such withdrawal.*

8           *(d) REPEAL OF LIMITATION ON USE OF FUNDS TO*  
9           *VOTE TO APPROVE OR OTHERWISE ADOPT ANY IMPLE-*  
10           *MENTING DECISION OF THE OPEN SKIES CONSULTATIVE*  
11           *COMMISSION AND MODIFICATIONS TO REPORT.—*

12                     *(1) IN GENERAL.—Section 1236 of the National*  
13                     *Defense Authorization Act for Fiscal Year 2017 (Pub-*  
14                     *lic Law 114–328; 130 Stat. 2491) is amended—*

15                             *(A) by striking subsections (a) and (b); and*  
16                             *(B) by redesignating subsections (c), (d),*  
17                             *(e), and (f) as subsections (a), (b), (c), and (d),*  
18                             *respectively.*

19                     *(2) MODIFICATIONS TO REPORT.—Subsection (a)*  
20                     *of such section, as so redesignated, is amended—*

21                             *(A) in the heading, by striking “QUAR-*  
22                             *TERLY” and inserting “BI-ANNUAL”;*

23                             *(B) in paragraph (1)—*

24                                     *(i) by inserting “the Secretary of*  
25                                     *State,” before “the Secretary of Energy”;*

1                   (ii) by striking “quarterly basis” and  
2                   inserting “bi-annual basis”;

3                   (iii) by striking “by the Russian Fed-  
4                   eration over the United States” and insert-  
5                   ing “by all parties to the Open Skies Trea-  
6                   ty, including the United States, under the  
7                   Treaty”; and

8                   (iv) by striking “calendar quarter”  
9                   and inserting “preceding 6-month period”;  
10                  and

11                  (C) in paragraph (2), by striking subpara-  
12                  graphs (B), (C), and (D) and inserting the fol-  
13                  lowing:

14                  “(B) In the case of an observation flight by  
15                  the United States, including an observation  
16                  flight over the territory of Russia—

17                         “(i) an analysis of data collected that  
18                         supports United States intelligence and  
19                         military collection goals; and

20                         “(ii) an assessment of data collected re-  
21                         garding military activity that could not be  
22                         collected through other means.

23                  “(C) In the case of an observation flight  
24                  over the territory of the United States—

1           “(i) an analysis of whether and the ex-  
2           tent to which any United States critical in-  
3           frastructure was the subject of image cap-  
4           ture activities of such observation flight;

5           “(ii) an estimate for the mitigation  
6           costs imposed on the Department of Defense  
7           or other United States Government agencies  
8           by such observation flight; and

9           “(iii) assessment of how such informa-  
10          tion is used by party conducting the obser-  
11          vation flight, for what purpose, and how the  
12          information fits into the overall collection  
13          posture.”.

14           (3) *FORM.*—Subsection (c) of such section, as so  
15          redesignated, is amended by striking “certification,  
16          report, and notice” and inserting “report”.

17           (4) *DEFINITIONS.*—Subsection (d) of such sec-  
18          tion, as so redesignated, is amended—

19                   (A) by striking paragraphs (3) and (6); and

20                   (B) by redesignating paragraphs (4), (5),

21                   and (7) as paragraphs (3), (4), and (5), respec-

22                   tively.

23           (e) *OPEN SKIES: IMPLEMENTATION PLAN.*—Section  
24          1235(a) of the National Defense Authorization Act for Fis-

1 *cal Year 2018 (Public Law 115–91; 131 Stat. 1660) is*  
2 *amended—*

3 *(1) in paragraph (1)—*

4 *(A) by striking “during such fiscal year”*  
5 *and inserting “during a calendar year”; and*

6 *(B) by striking “the President submits” and*  
7 *all that follows and inserting “the Secretary of*  
8 *Defense provides to the appropriate congressional*  
9 *committees a briefing on a plan described in*  
10 *paragraph (2) with respect to such calendar*  
11 *year.”;*

12 *(2) in paragraph (2), by striking “such fiscal*  
13 *year” and inserting “such calendar year”; and*

14 *(3) in paragraph (3), by striking “a fiscal year*  
15 *and submit the updated plan” and inserting “a cal-*  
16 *endar year and provide a briefing on the updated*  
17 *plan”.*

18 *(f) DEFINITION OF OPEN SKIES TREATY; TREATY.—*

19 *In this section, the term “Open Skies Treaty” or “Treaty”*  
20 *means the Treaty on Open Skies, done at Helsinki March*  
21 *24, 1992, and entered into force January 1, 2002.*

1 **SEC. 1232. EXTENSION OF LIMITATION ON MILITARY CO-**  
2 **OPERATION BETWEEN THE UNITED STATES**  
3 **AND RUSSIA.**

4 *Section 1232(a) of the National Defense Authorization*  
5 *Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat.*  
6 *2488), is amended by striking “or 2019” and inserting “,*  
7 *2019, or 2020”.*

8 **SEC. 1233. PROHIBITION ON AVAILABILITY OF FUNDS RE-**  
9 **LATING TO SOVEREIGNTY OF RUSSIA OVER**  
10 **CRIMEA.**

11 *(a) PROHIBITION.—None of the funds authorized to be*  
12 *appropriated by this Act or otherwise made available for*  
13 *fiscal year 2020 for the Department of Defense may be obli-*  
14 *gated or expended to implement any activity that recognizes*  
15 *the sovereignty of Russia over Crimea.*

16 *(b) WAIVER.—The Secretary of Defense, with the con-*  
17 *currence of the Secretary of State, may waive the restriction*  
18 *on the obligation or expenditure of funds required by sub-*  
19 *section (a) if the Secretary—*

20 *(1) determines that to do so is in the national*  
21 *security interest of the United States; and*

22 *(2) submits a notification of the waiver, at the*  
23 *time the waiver is invoked, to the Committee on*  
24 *Armed Services and the Committee on Foreign Affairs*  
25 *of the House of Representatives and the Committee on*

1 *Armed Services and the Committee on Foreign Rela-*  
2 *tions of the Senate.*

3 **SEC. 1234. MODIFICATION AND EXTENSION OF UKRAINE SE-**  
4 **CURITY ASSISTANCE INITIATIVE.**

5 *Section 1250 of the National Defense Authorization*  
6 *Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat.*  
7 *1068) is amended—*

8 *(1) in subsection (a), by striking “in coordina-*  
9 *tion with the Secretary of State” and inserting “with*  
10 *the concurrence of the Secretary of State”;*

11 *(2) in subsection (c)—*

12 *(A) in paragraph (1), by striking “50 per-*  
13 *cent of the funds available for fiscal year 2019*  
14 *pursuant to subsection (f)(4)” and inserting “50*  
15 *percent of the funds available for fiscal year*  
16 *2020 pursuant to subsection (f)(5)”;* and

17 *(B) in paragraph (3), by striking “fiscal*  
18 *year 2019” and inserting “fiscal year 2020”;*  
19 *and*

20 *(C) in paragraph (5), by striking “Of the*  
21 *funds available for fiscal year 2019 pursuant to*  
22 *subsection (f)(4)” and inserting “Of the funds*  
23 *available for fiscal year 2020 pursuant to sub-*  
24 *section (f)(5)”;* and

1           (3) *in subsection (f), by adding at the end the*  
2     *following:*

3           “(5) *For fiscal year 2020, \$250,000,000.*”.

4     **SEC. 1235. REPORT ON TREATIES RELATING TO NUCLEAR**  
5           **ARMS CONTROL.**

6           (a) *FINDINGS.—Congress finds the following:*

7           (1) *On October 24, 2018, the House Committee*  
8     *on Armed Services and House Committee on Foreign*  
9     *Affairs wrote to the Secretary of Defense requesting*  
10    *information regarding the Administration’s policies*  
11    *and strategies related to nuclear arms control.*

12          (2) *The Committees did not receive the requested*  
13    *information from the Secretary of Defense.*

14          (b) *ASSESSMENT REQUIRED.—Not later than 120 days*  
15    *after the date of the enactment of this Act, the Secretary*  
16    *of Defense, in consultation with the Secretary of State and*  
17    *the Director of National Intelligence, shall submit to the*  
18    *Committee on Armed Services, the Permanent Select Com-*  
19    *mittee on Intelligence, and the Committee on Foreign Af-*  
20    *fairs of the House of Representatives and the Committee on*  
21    *Armed Services, the Select Committee on Intelligence, and*  
22    *the Committee on Foreign Relations of the Senate an assess-*  
23    *ment that includes each of the following:*

24          (1) *The implications, in terms of military threat*  
25    *to the United States or its allies in Europe, of Rus-*

1        *sian deployment of intermediate-range cruise and bal-*  
2        *listic missiles without restriction.*

3            (2) *What new capabilities the United States*  
4        *might need in order to pursue additional technologies*  
5        *or programs to offset such Russian capabilities, and*  
6        *the costs associated with such capabilities, tech-*  
7        *nologies, and programs.*

8            (3) *An assessment of the threat to the United*  
9        *States of Russia's strategic nuclear force in the event*  
10       *the New START Treaty lapses.*

11           (4) *What measures could have been taken short*  
12       *of withdrawal, including economic, military, and*  
13       *diplomatic options, to increase pressure on Russia for*  
14       *violating the INF Treaty.*

15           (5) *The status of all consultations with allies*  
16       *pertaining to the INF Treaty and the threat posed by*  
17       *Russian forces that are noncompliant with the obliga-*  
18       *tions of such treaty.*

19           (6) *The impact that Russian withdrawal from*  
20       *the INF Treaty and the expiration of the New*  
21       *START Treaty could have on long-term United*  
22       *States-Russia strategic stability.*

23        (c) *WITHHOLDING OF FUNDS.*—*Until the date of the*  
24       *submission of the assessment required by subsection (b), an*  
25       *amount that is equal to 20 percent of the total amount au-*

1 *thorized to be appropriated to the Office of the Secretary*  
2 *of Defense under the Operations and Maintenance, Defense-*  
3 *Wide account for the travel of persons shall be withheld from*  
4 *obligation or expenditure.*

5 *(d) DEFINITIONS.—In this section:*

6 *(1) NEW START TREATY.—The term “New*  
7 *START Treaty” means the Treaty between the*  
8 *United States of America and the Russian Federation*  
9 *on Measures for the Further Reduction and Limita-*  
10 *tion of Strategic Offensive Arms, signed at Prague*  
11 *April 8, 2010, and entered into force February 5,*  
12 *2011.*

13 *(2) INF TREATY.—The term “INF Treaty”*  
14 *means the Treaty between the United States of Amer-*  
15 *ica and the Union of Soviet Socialist Republics on*  
16 *the Elimination of Their Intermediate-Range and*  
17 *Shorter-Range Missiles, signed at Washington Decem-*  
18 *ber 8, 1987, and entered into force June 1, 1988.*

19 **SEC. 1236. SENSE OF CONGRESS ON UPDATING AND MOD-**  
20 **ERNIZING EXISTING AGREEMENTS TO AVERT**  
21 **MISCALCULATION BETWEEN THE UNITED**  
22 **STATES AND RUSSIA.**

23 *It is the sense of Congress that, in order to strengthen*  
24 *the defense of United States and its allies and partners in*  
25 *Europe and avert the risk of miscalculation and unintended*

1 *escalation that could lead to a broader and dangerous mili-*  
2 *tary catastrophe, the Secretary of Defense and Secretary of*  
3 *State, in consultation with the commander of United States*  
4 *European Command and Assistant Secretary of State for*  
5 *European and Eurasian Affairs, should—*

6           (1) *pursue updating and modernizing the Agree-*  
7 *ment on the prevention of incidents on and over the*  
8 *high seas (entered into force with respect to the*  
9 *United States on May 25, 1972; 23 U.S.T. 1063);*

10           (2) *explore additional options to reduce the risk*  
11 *of accidents in the air; and*

12           (3) *explore the possibility of updating the notifi-*  
13 *cations in the Vienna Document of the Organization*  
14 *for Security and Cooperation in Europe with a view*  
15 *to reducing the risk that the United States, the North*  
16 *Atlantic Treaty Organization, or Russia might mis-*  
17 *interpret a military exercise, including pursuing*  
18 *greater use of the Vienna Document’s provision that*  
19 *provides for voluntary hosting of visits that seek to*  
20 *dispel possible concern regarding military activities.*

21 **SEC. 1237. SENSE OF CONGRESS ON SUPPORT FOR GEOR-**

22 **GIA.**

23 (a) *FINDINGS.—Congress finds the following:*

24           (1) *Georgia is a valued friend of the United*  
25 *States and has repeatedly demonstrated its commit-*

1 *ment to advancing the mutual interests of both coun-*  
2 *tries, including the deployment of Georgian forces as*  
3 *part of the former International Security Assistance*  
4 *Force (ISAF) and the current Resolute Support Mis-*  
5 *sion led by the North Atlantic Treaty Organization*  
6 *(NATO) in Afghanistan and the Multi-National Force*  
7 *in Iraq.*

8 *(2) The European Deterrence Initiative builds*  
9 *the partnership capacity of Georgia so it can work*  
10 *more closely with the United States and NATO, as*  
11 *well as provide for its own defense.*

12 *(3) In addition to the European Deterrence Ini-*  
13 *tiative, Georgia's participation in the NATO initia-*  
14 *tive Partnership for Peace is paramount to interoper-*  
15 *ability with the United States and NATO, and estab-*  
16 *lishing a more peaceful environment in the region.*

17 *(4) Despite the losses suffered, as a NATO part-*  
18 *ner, Georgia is committed to the Resolute Support*  
19 *Mission in Afghanistan with the fourth-largest contin-*  
20 *gent on the ground.*

21 *(b) SENSE OF CONGRESS.—Congress—*

22 *(1) reaffirms United States support for Georgia's*  
23 *sovereignty and territorial integrity within its inter-*  
24 *nationally-recognized borders, and does not recognize*  
25 *the independence of the Abkhazia and South Ossetia*

1 *regions currently occupied by the Russian Federation;*  
2 *and*

3 *(2) supports continued cooperation between the*  
4 *United States and Georgia and the efforts of the Gov-*  
5 *ernment of Georgia to provide for the defense of its*  
6 *people and sovereign territory.*

7 **SEC. 1238. SENSE OF CONGRESS ON SUPPORT FOR ESTO-**  
8 **NIA, LATVIA, AND LITHUANIA.**

9 *(a) FINDINGS.—Congress finds the following:*

10 *(1) The Baltic countries of Estonia, Latvia, and*  
11 *Lithuania are highly valued allies of the United*  
12 *States, and they have repeatedly demonstrated their*  
13 *commitment to advancing our mutual interests as*  
14 *well as those of the NATO Alliance.*

15 *(2) Operation Atlantic Resolve is a series of exer-*  
16 *cises and coordinating efforts demonstrating the*  
17 *United States' commitment to its European partners*  
18 *and allies, including the Baltic countries of Estonia,*  
19 *Latvia, and Lithuania, with the shared goal of peace*  
20 *and stability in the region. Operation Atlantic Re-*  
21 *solve strengthens communication and understanding,*  
22 *and is an important effort to deter Russian aggres-*  
23 *sion in the region.*

24 *(3) Through Operation Atlantic Resolve, the Eu-*  
25 *ropean Deterrence Initiative undertakes exercises,*

1        *training, and rotational presence necessary to reas-*  
2        *sure and integrate our allies, including the Baltic*  
3        *countries, into a common defense framework.*

4            *(4) All three Baltic countries contributed to the*  
5        *NATO-led International Security Assistance Force in*  
6        *Afghanistan, sending troops and operating with few*  
7        *caveats. The Baltic countries continue to commit re-*  
8        *sources and troops to the Resolute Support Mission in*  
9        *Afghanistan.*

10        *(b) SENSE OF CONGRESS.—Congress—*

11            *(1) reaffirms its support for the principle of col-*  
12        *lective defense in Article 5 of the North Atlantic Trea-*  
13        *ty for our NATO allies, including Estonia, Latvia,*  
14        *and Lithuania;*

15            *(2) supports the sovereignty, independence, terri-*  
16        *torial integrity, and inviolability of Estonia, Latvia,*  
17        *and Lithuania as well as their internationally recog-*  
18        *nized borders, and expresses concerns over increas-*  
19        *ingly aggressive military maneuvering by the Russian*  
20        *Federation near their borders and airspace;*

21            *(3) expresses concern over and condemns subver-*  
22        *sive and destabilizing activities by the Russian Fed-*  
23        *eration within the Baltic countries; and*

24            *(4) encourages the Administration to further en-*  
25        *hance defense cooperation efforts with Estonia, Lat-*

1        *via, and Lithuania and supports the efforts of their*  
2        *Governments to provide for the defense of their people*  
3        *and sovereign territory.*

4        ***Subtitle E—Matters Relating to the***  
5        ***Indo-Pacific Region***

6        ***SEC. 1241. MODIFICATION OF INDO-PACIFIC MARITIME SE-***  
7        ***CURITY INITIATIVE.***

8        *(a) TYPES OF ASSISTANCE AND TRAINING.—Sub-*  
9        *section (c)(2)(A) of section 1263 of the National Defense Au-*  
10       *thorization Act for Fiscal Year 2016 (10 U.S.C. 2282 note)*  
11       *is amended by inserting “the law of armed conflict, the rule*  
12       *of law, and” after “respect for”.*

13       *(b) NOTICE TO CONGRESS ON ASSISTANCE AND TRAIN-*  
14       *ING.—Subsection (g)(1) of such section is amended—*

15                *(1) in subparagraph (A), by inserting at the end*  
16        *before the period the following: “, the specific unit or*  
17        *units whose capacity to engage in activities under a*  
18        *program of assistance or training to be provided*  
19        *under subsection (a) will be built under the program,*  
20        *and the amount, type, and purpose of the support to*  
21        *be provided”;*

22                *(2) by redesignating subparagraph (F) as sub-*  
23        *paragraph (J); and*

24                *(3) by inserting after subparagraph (E) the fol-*  
25        *lowing new subparagraphs:*

1           “(F) Information, including the amount,  
2           type, and purpose, on assistance and training  
3           provided under subsection (a) during the three  
4           preceding fiscal years, if applicable.

5           “(G) A description of the elements of the  
6           theater campaign plan of the geographic combat-  
7           ant command concerned and the interagency in-  
8           tegrated country strategy that will be advanced  
9           by the assistance and training provided under  
10          subsection (a).

11          “(H) A description of whether assistance  
12          and training provided under subsection (a) could  
13          be provided pursuant to—

14                 “(i) section 333 of title 10, United  
15                 States Code, or other security cooperation  
16                 authorities of the Department of Defense; or

17                 “(ii) security cooperation authorities of  
18                 the Department of State.

19          “(I) An identification of each such author-  
20          ity described in subparagraph (H).”.

21          (c) ANNUAL MONITORING REPORTS.—Such section is  
22          amended—

23                 (1) by redesignating subsection (h) as subsection  
24                 (j); and

1           (2) *by inserting after subsection (g) the following*  
2           *new subsection:*

3           “(h) *ANNUAL MONITORING REPORTS.*—

4           “(1) *IN GENERAL.*—*Not later than December 31,*  
5           *2019, and annually thereafter, the Secretary of De-*  
6           *fense shall submit to the appropriate committees of*  
7           *Congress a report setting forth, for the preceding cal-*  
8           *endar year, the following:*

9           “(A) *Information, by recipient foreign*  
10           *country, on the status of funds allocated for as-*  
11           *sistance and training provided under subsection*  
12           *(a), including funds allocated but not yet obli-*  
13           *gated or expended.*

14           “(B) *Information, by recipient foreign*  
15           *country, on the delivery and use of assistance*  
16           *and training provided under subsection (a).*

17           “(C) *Information, by recipient foreign coun-*  
18           *try, on the timeliness of delivery of assistance*  
19           *and training provided under subsection (a) as*  
20           *compared to the timeliness of delivery of assist-*  
21           *ance and training previously provided to the for-*  
22           *foreign country under subsection (a).*

23           “(2) *APPROPRIATE COMMITTEES OF CONGRESS*  
24           *DEFINED.*—*In this subsection, the term ‘appropriate*

1       committees of Congress’ has the meaning given the  
2       term in subsection (g)(2).”.

3       (d) *LIMITATIONS.*—Such section, as so amended, is  
4       further amended by inserting after subsection (h), as added  
5       by subsection (c)(2), the following:

6       “(i) *LIMITATIONS.*—

7               “(1) *ASSISTANCE OTHERWISE PROHIBITED BY*  
8       *LAW.*—The Secretary of Defense may not use the au-  
9       thority in subsection (a) to provide any type of assist-  
10      ance or training that is otherwise prohibited by any  
11      provision of law.

12              “(2) *PROHIBITION ON ASSISTANCE TO UNITS*  
13      *THAT HAVE COMMITTED GROSS VIOLATIONS OF*  
14      *HUMAN RIGHTS.*—The provision of assistance and  
15      training pursuant to a program under subsection (a)  
16      shall be subject to the provisions of section 362 of title  
17      10, United States Code.

18              “(3) *ASSESSMENT, MONITORING, AND EVALUA-*  
19      *TION OF PROGRAMS AND ACTIVITIES.*—The provision  
20      of assistance and training pursuant to a program  
21      under subsection (a) shall be subject to the provisions  
22      of section 383 of title 10, United States Code.”.

23      (e) *REPORT.*—

24              “(1) *IN GENERAL.*—Not later than January 31,  
25      2020, the Secretary of Defense, with the concurrence

1       of the Secretary of State, shall submit to the appro-  
2       priate congressional committees a report on the im-  
3       plementation of the Indo-Pacific Maritime Security  
4       Initiative under section 1263 of the National Defense  
5       Authorization Act for Fiscal Year 2016, as amended  
6       by this section.

7               (2) *MATTERS TO BE INCLUDED.*—The report re-  
8       quired by paragraph (1) shall include the following:

9               (A) *Objectives of the Initiative, including—*

10               (i) *a discussion of United States secu-*  
11               *urity requirements that are satisfied or en-*  
12               *hanced under the Initiative; and*

13               (ii) *an assessment of progress toward*  
14               *each such objective and the metrics used to*  
15               *assess such progress.*

16               (B) *A discussion of how the Initiative re-*  
17               *lates to, complements, or overlaps with other*  
18               *United States security cooperation and security*  
19               *assistance authorities.*

20               (C) *A description of the process and criteria*  
21               *by which the utilization of each such authority*  
22               *or authorities described in subparagraph (B) is*  
23               *determined.*

24               (D) *An assessment, by recipient foreign*  
25               *country, of—*

1           (i) *the country's capabilities relating*  
2 *to maritime security and maritime domain*  
3 *awareness;*

4           (ii) *the country's capability enhance-*  
5 *ment priorities, including how such prior-*  
6 *ities relate to the theater campaign strategy,*  
7 *country plan, and theater campaign plan*  
8 *relating to maritime security and maritime*  
9 *domain awareness;*

10          (E) *A discussion, by recipient foreign coun-*  
11 *try, of—*

12           (i) *priority capabilities that the De-*  
13 *partment of Defense plans to enhance under*  
14 *the Initiative and priority capabilities the*  
15 *Department plans to enhance under sepa-*  
16 *rate United States security cooperation and*  
17 *security assistance authorities; and*

18           (ii) *the anticipated timeline for assist-*  
19 *ance and training for each such capability.*

20          (F) *Information, by recipient foreign coun-*  
21 *try, on the delivery and use of assistance and*  
22 *training provided under the Initiative.*

23          (G) *Any other matters the Secretary of De-*  
24 *fense determines should be included.*

1           (3) *FORM.*—*The report required by paragraph*  
2 *(1) shall be submitted in unclassified form without*  
3 *any designation relating to dissemination control, but*  
4 *may include a classified annex.*

5           (4) *DEFINITION.*—*In this section, the term “ap-*  
6 *propriate congressional committees” means—*

7                   (A) *the congressional defense committees;*  
8                   *and*

9                   (B) *the Committee on Foreign Relations of*  
10 *the Senate and the Committee on Foreign Affairs*  
11 *of the House of Representatives.*

12 **SEC. 1242. EXTENSION AND MODIFICATION OF REPORT ON**  
13 **MILITARY AND SECURITY DEVELOPMENTS IN-**  
14 **VOLVING NORTH KOREA.**

15           (a) *EXTENSION.*—*Subsection (a) of section 1236 of the*  
16 *National Defense Authorization Act for Fiscal Year 2012*  
17 *(Public Law 112–81; 125 Stat. 1641) is amended—*

18                   (1) *by striking “and November 1, 2017” and in-*  
19 *serting “November 1, 2017, April 1, 2020, and April*  
20 *1, 2021”; and*

21                   (2) *by inserting “(without any designation relat-*  
22 *ing to dissemination control)” after “unclassified”.*

23           (b) *ADDITIONAL MATTERS TO BE INCLUDED.*—*Sub-*  
24 *section (b) of such section is amended—*

1           (1) *by redesignating paragraph (8) as para-*  
2 *graph (9); and*

3           (2) *by inserting after paragraph (7) the fol-*  
4 *lowing new paragraph:*

5           “(8) *Developments in North Korea’s nuclear pro-*  
6 *gram, including the size and state of North Korea’s*  
7 *stockpile of nuclear weapons, its nuclear strategy and*  
8 *associated doctrines, its civil and military production*  
9 *capacities, and projections of its future arsenals.”.*

10 **SEC. 1243. LIMITATION ON USE OF FUNDS TO REDUCE THE**  
11 **TOTAL NUMBER OF MEMBERS OF THE ARMED**  
12 **FORCES SERVING ON ACTIVE DUTY WHO ARE**  
13 **DEPLOYED TO SOUTH KOREA.**

14           *None of the funds authorized to be appropriated by this*  
15 *Act may be used to reduce the total number of members*  
16 *of the Armed Forces serving on active duty who are de-*  
17 *ployed to South Korea below 28,500 unless the Secretary*  
18 *of Defense first certifies to the congressional defense commit-*  
19 *tees the following:*

20           (1) *Such a reduction is in the national security*  
21 *interest of the United States and will not signifi-*  
22 *cantly undermine the security of United States allies*  
23 *in the region.*

1           (2) *The Secretary has appropriately consulted*  
2           *with allies of the United States, including South*  
3           *Korea and Japan, regarding such a reduction.*

4 **SEC. 1244. REPORT ON DIRECT, INDIRECT, AND BURDEN-**  
5                                   **SHARING CONTRIBUTIONS OF JAPAN AND**  
6                                   **SOUTH KOREA.**

7           (a) *IN GENERAL.*—*Not later than March 1, 2020, and*  
8           *March 1, 2021, the Secretary of Defense shall submit to the*  
9           *appropriate congressional committees a report on the direct,*  
10           *indirect, and burden-sharing contributions of Japan and*  
11           *South Korea to support overseas military installations of*  
12           *the United States and United States Armed Forces deployed*  
13           *to or permanently stationed in Japan and South Korea,*  
14           *respectively.*

15           (b) *ELEMENTS.*—*The report required by subsection (a)*  
16           *shall include the following:*

17                           (1) *The benefits to United States national secu-*  
18                           *rity and regional security derived from the forward*  
19                           *presence of United States Armed Forces in the Indo-*  
20                           *Pacific region, including Japan and South Korea.*

21                           (2) *For calendar year 2016 and each subsequent*  
22                           *calendar year, a description of the one-time and re-*  
23                           *curring costs associated with the presence of United*  
24                           *States Armed Forces in Japan and South Korea, in-*  
25                           *cluding—*

1           (A) costs to relocate the Armed Forces with-  
2           in Japan and South Korea and to realign the  
3           Armed Forces from Japan and South Korea;

4           (B) military personnel costs;

5           (C) operation and maintenance costs; and

6           (D) military construction costs.

7           (3) A description of direct, indirect, and burden-  
8           sharing contributions of Japan and South Korea, in-  
9           cluding—

10           (A) contributions for labor costs associated  
11           with the presence of United States Armed Forces;

12           (B) contributions to military construction  
13           projects of the Department of Defense, including  
14           planning, design, environmental reviews, con-  
15           struction, construction management costs, rents  
16           on privately-owned land, facilities, labor, utili-  
17           ties, and vicinity improvements;

18           (C) contributions such as loan guarantees  
19           on public-private venture housing and payment-  
20           in-kind for facilities returned to Japan and  
21           South Korea;

22           (D) contributions accepted for labor, logis-  
23           tics, utilities, facilities, and any other purpose;  
24           and

1                   (E) other contributions as determined ap-  
2                   propriate by the Secretary.

3                   (4) The methodology and accounting procedures  
4                   used to measure and track direct, indirect, and bur-  
5                   den-sharing contributions made by Japan and South  
6                   Korea.

7                   (c) *DESCRIPTION OF CONTRIBUTIONS IN UNITED*  
8                   *STATES DOLLARS.*—The report required by subsection (a)  
9                   shall describe the direct, indirect, and burden-sharing con-  
10                  tributions of Japan and South Korea in United States dol-  
11                  lars and shall specify the exchange rates used to determine  
12                  the United States dollar value of such contributions.

13                  (d) *FORM.*—The report required by subsection (a) shall  
14                  be submitted in unclassified form without any designation  
15                  relating to dissemination control, but may contain a classi-  
16                  fied annex.

17                  (e) *APPROPRIATE CONGRESSIONAL COMMITTEES DE-*  
18                  *FINED.*—In this section, the term “appropriate congres-  
19                  sional committees” means—

20                         (1) the congressional defense committees; and

21                         (2) the Committee on Foreign Relations of the  
22                         Senate and the Committee on Foreign Affairs of the  
23                         House of Representatives.

1 **SEC. 1245. REPORT ON STRATEGY ON THE PHILIPPINES.**

2       (a) *STRATEGY REQUIRED.*—Not later than 120 days  
3 after the date of the enactment of this Act, the Secretary  
4 of Defense, in consultation with the Secretary of State, shall  
5 submit to the appropriate congressional committees a report  
6 describing the Department of Defense’s objectives and strat-  
7 egy for achieving such objectives with the Philippines.

8       (b) *ELEMENTS OF STRATEGY.*—The strategy required  
9 by subsection (b) shall include the following:

10           (1) *A description of the national security inter-*  
11 *ests and objectives of the United States furthered by*  
12 *the Mutual Defense Treaty between the Republic of*  
13 *the Philippines and the United States of America.*

14           (2) *A description of the regional security envi-*  
15 *ronment, including an assessment of threats to United*  
16 *States national security interests and the role of the*  
17 *Department of Defense in addressing such threats, in-*  
18 *cluding—*

19                   (A) *a description of security challenges det-*  
20 *rimonial to regional peace and global stability;*

21                   (B) *a description of violent extremist orga-*  
22 *nizations present in the Philippines and the pri-*  
23 *mary objectives of each such organization, in-*  
24 *cluding—*

25                           (i) *an assessment of the size and capa-*  
26 *bility of each such organization;*

1                   (ii) an assessment of the transnational  
2                   threat posed by each such organization;

3                   (iii) an assessment of recent trends in  
4                   the capability and influence of each such or-  
5                   ganization; and

6                   (iv) a description of the metrics used to  
7                   assess the capability and influence of each  
8                   such organization.

9                   (3) A description of Department of Defense objec-  
10                  tives with respect to the Philippines and the bench-  
11                  marks for assessing progress towards such objectives.

12                  (4) An identification of all current and planned  
13                  Department of Defense resources, programs, and ac-  
14                  tivities to support the strategy, including a review of  
15                  the necessity of an ongoing named operation and the  
16                  criteria used to determine such necessity.

17                  (5) An identification of all current and planned  
18                  Department of Defense security cooperation and other  
19                  support or assistance programs or activities in the  
20                  Philippines, including—

21                       (A) a description of the purpose, objectives,  
22                       and type of training, equipment, or assistance  
23                       provided under each such program or activity;

24                       (B) an identification of the lead agency re-  
25                       sponsible for each such program or activity;

1           (C) an identification of the authority or au-  
2           thorities under which each such program or ac-  
3           tivity is conducted;

4           (D) a description of the process and criteria  
5           used to determine utilization between each such  
6           authority or authorities;

7           (E) a description of how each such program  
8           or activity advances United States national se-  
9           curity interests as it relates to the Department's  
10          strategy on the Philippines;

11          (F) an identification of the specific units of  
12          the Philippine national security forces to receive  
13          training, equipment, or assistance under each  
14          such program;

15          (G) a description of the process and criteria  
16          by which specific units of the Philippine na-  
17          tional security forces are selected as recipients of  
18          such programs and activities;

19          (H) an assessment of the current oper-  
20          ational effectiveness of such units and their com-  
21          mand and control structures and a description of  
22          the metrics used to make and carry out such as-  
23          sessment;

24          (I) an identification of priority capabilities  
25          of such units to enhance through training, equip-

1           *ment, or assistance under each such program or*  
2           *activity;*

3                   *(J) a plan to monitor and assess each such*  
4           *program or activity to meet its objectives to en-*  
5           *hance the capabilities of each such unit;*

6                   *(K) a description of the planned posture of*  
7           *United States Armed Forces and the planned*  
8           *level of engagement by such forces with elements*  
9           *of the Philippine national security forces; and*

10                   *(L) an identification of—*

11                           *(i) units of the Philippine national se-*  
12           *curity forces that are alleged or determined*  
13           *to have committed human rights abuses;*  
14           *and*

15                           *(ii) units of the Philippine national se-*  
16           *curity forces that are under the command*  
17           *and control of any unit identified under*  
18           *clause (i) or otherwise associated with any*  
19           *such unit.*

20                   *(6) A description of relations of the Philippines*  
21           *with other countries in the Indo-Pacific region.*

22                   *(7) Any other matters the Secretary of Defense*  
23           *determines should be included.*

24           *(c) FORM.—The strategy required by subsection (b)*  
25           *shall be submitted in unclassified form without any des-*

1 *ignation relating to dissemination control, but may contain*  
2 *a classified annex.*

3 (d) *APPROPRIATE CONGRESSIONAL COMMITTEES DE-*  
4 *FINED.—In this section, the term “appropriate congress-*  
5 *sional committees” means—*

6 (1) *the congressional defense committees; and*

7 (2) *the Committee on Foreign Relations of the*  
8 *Senate and the Committee on Foreign Affairs of the*  
9 *House of Representatives.*

10 **SEC. 1246. MODIFICATION OF ANNUAL REPORT ON MILI-**  
11 **TARY AND SECURITY DEVELOPMENTS IN-**  
12 **VOLVING THE PEOPLE’S REPUBLIC OF CHINA.**

13 (a) *ANNUAL REPORT.—Subsection (a) of section 1202*  
14 *of the National Defense Authorization Act for Fiscal Year*  
15 *2000 (10 U.S.C. 113 note) is amended by inserting “, in*  
16 *consultation with the heads of other Federal departments*  
17 *and agencies as appropriate,” after “the Secretary of De-*  
18 *fense”.*

19 (b) *MATTERS TO BE INCLUDED.—Subsection (b) of*  
20 *such section is amended by striking paragraph (26) and*  
21 *inserting the following:*

22 “(26) *An assessment of Chinese overseas invest-*  
23 *ment, including a state-owned or controlled digital or*  
24 *physical infrastructure project of China, and their re-*  
25 *lationship to Chinese security and military objectives,*

1 *including implications for United States military or*  
2 *government interests related to denial of access, com-*  
3 *promised intelligence activities, and network advan-*  
4 *tages.”.*

5 *(c) SPECIFIED CONGRESSIONAL COMMITTEES.—Sub-*  
6 *section (c) of such section is amended—*

7 *(1) in paragraph (1), by striking “and the Com-*  
8 *mittee on Foreign Relations” and inserting “, the*  
9 *Committee on Foreign Relations, and the Select Com-*  
10 *mittee on Intelligence”; and*

11 *(2) in paragraph (2), by striking “and the Com-*  
12 *mittee on International Relations” and inserting “,*  
13 *the Committee on Foreign Affairs, and the Permanent*  
14 *Select Committee on Intelligence”.*

15 *(d) OTHER DEFINITIONS.—Such section, as so amend-*  
16 *ed, is further amended—*

17 *(1) by redesignating subsection (d) as subsection*  
18 *(e); and*

19 *(2) by inserting after subsection (c) the fol-*  
20 *lowing:*

21 *“(d) OTHER DEFINITIONS.—*

22 *“(1) IN GENERAL.—In subsection (b)(26), the*  
23 *term ‘state-owned or controlled digital or physical in-*  
24 *frastructure project of China’ means a transportation,*  
25 *energy, or information technology infrastructure*

1 *project owned, controlled, under the direct or indirect*  
2 *influence of, or subsidized by the Government of*  
3 *China, including any agency, instrumentality, sub-*  
4 *division, or other unit of government at any level of*  
5 *jurisdiction.*

6 “(2) OWNED; CONTROLLED.—In paragraph  
7 (1)—

8 “(A) the term ‘owned’, with respect to a  
9 project, means a majority or controlling interest,  
10 whether by value or voting interest, in that  
11 project, including through fiduciaries, agents, or  
12 other means; and

13 “(B) the term ‘controlled’, with respect to a  
14 project, means—

15 “(i) the power by any means to deter-  
16 mine or influence, directly or indirectly,  
17 important matters affecting the project, re-  
18 gardless of the level of ownership and wheth-  
19 er or not that power is exercised; and

20 “(ii) any Chinese company operating  
21 in a sector identified as a strategic industry  
22 in the Chinese Government’s ‘Made in  
23 China 2025’ strategy to make China a  
24 ‘manufacturing power’ as a core national  
25 interest.”.

1 **SEC. 1247. MODIFICATION OF ANNUAL REPORT ON MILI-**  
2 **TARY AND SECURITY DEVELOPMENTS IN-**  
3 **VOLVING THE PEOPLE'S REPUBLIC OF CHINA.**

4 (a) *ANNUAL REPORT.*—Subsection (a) of section 1202  
5 of the National Defense Authorization Act for Fiscal Year  
6 2000 (10 U.S.C. 113 note) is amended by inserting “, in  
7 consultation with the heads of other Federal departments  
8 and agencies as appropriate,” after “the Secretary of De-  
9 fense”.

10 (b) *MATTERS TO BE INCLUDED.*—Subsection (b) of  
11 such section is amended by adding at the end the following:

12 “(29) Developments relating to the China Coast  
13 Guard (in this paragraph referred to as the ‘CCG’),  
14 including an assessment of—

15 “(A) how the change in the CCG’s command  
16 structure to report to China’s Central Military  
17 Commission affects the CCG’s status as a law en-  
18 forcement entity;

19 “(B) the implications of the CCG’s com-  
20 mand structure with respect to the use of the  
21 CCG as a coercive tool in ‘gray zone’ activity in  
22 the East China Sea and the South China Sea;  
23 and

24 “(C) how the change in the CCG’s command  
25 structure may affect interactions between the  
26 CCG and the United States Navy.”.

1       (c) *SPECIFIED CONGRESSIONAL COMMITTEES.*—Sub-  
2 section (c) of such section is amended—

3           (1) in paragraph (1), by striking “and the Com-  
4 mittee on Foreign Relations” and inserting “, the  
5 Committee on Foreign Relations, and the Select Com-  
6 mittee on Intelligence”; and

7           (2) in paragraph (2), by striking “and the Com-  
8 mittee on International Relations” and inserting “,  
9 the Committee on Foreign Affairs, and the Permanent  
10 Select Committee on Intelligence”.

11 **SEC. 1248. SENSE OF CONGRESS ON TAIWAN.**

12 *It is the sense of Congress that—*

13           (1) *the Taiwan Relations Act (22 U.S.C. 3301 et*  
14 *seq.) and the “Six Assurances” are both cornerstones*  
15 *of United States relations with Taiwan;*

16           (2) *the United States should continue to*  
17 *strengthen defense and security cooperation with Tai-*  
18 *wan to support the development of capable, ready,*  
19 *and modern defense forces necessary for Taiwan to*  
20 *maintain a sufficient self-defense capability, includ-*  
21 *ing capabilities in support of an asymmetric defense*  
22 *strategy;*

23           (3) *the United States should continue to support*  
24 *the acquisition by Taiwan of appropriate defensive*  
25 *weapons through foreign military sales, direct com-*

1        *mercial sales, and industrial cooperation, with a par-*  
2        *ticular emphasis on asymmetric warfare, information*  
3        *sharing, air defense, and maritime capabilities, con-*  
4        *sistent with the Taiwan Relations Act;*

5            *(4) the United States should improve the predict-*  
6        *ability of arms sales to Taiwan by ensuring timely*  
7        *review of and response to requests of Taiwan for de-*  
8        *fense articles and defense services as well as timely*  
9        *notification to Congress and adherence to congres-*  
10       *sional oversight and review procedures; and*

11           *(5) the Secretary of Defense, in consultation with*  
12        *the Secretary of State, should promote policies con-*  
13        *cerning cooperation and exchanges that enhance the*  
14        *security of Taiwan, including exchanges between sen-*  
15        *ior defense officials and general officers of the United*  
16        *States and Taiwan consistent with the Taiwan Trav-*  
17        *el Act (Public Law 115–135).*

18 **SEC. 1249. ENHANCING DEFENSE COOPERATION WITH**  
19            **SINGAPORE.**

20        *It is the sense of Congress that—*

21            *(1) the United States Armed Forces and Singa-*  
22        *porean armed forces have built a strong and enduring*  
23        *security partnership based on long-standing and mu-*  
24        *tually beneficial cooperation;*

1           (2) *security cooperation between the United*  
2           *States Armed Forces and Singaporean armed forces is*  
3           *crucial to promoting peace and stability in the Asia-*  
4           *Pacific region;*

5           (3) *Singapore’s status as a major security co-*  
6           *operation partner of the United States, as recognized*  
7           *in the “2005 Strategic Framework Agreement between*  
8           *the United States and the Republic of Singapore for*  
9           *a Closer Partnership in Defense and Security”, has*  
10          *an important role in the promotion of peace and sta-*  
11          *bility, and global efforts to counter terrorism;*

12          (4) *Singapore’s provision of access to its mili-*  
13          *tary facilities for the United States has supported the*  
14          *continued security presence of the United States in*  
15          *Southeast Asia;*

16          (5) *the Singaporean armed forces’ support of*  
17          *United States-led multinational reconstruction efforts*  
18          *in Iraq from 2003 to 2008, reconstruction and sta-*  
19          *bilization efforts in Afghanistan from 2007 to 2013,*  
20          *counter-piracy operations in the Gulf of Aden under*  
21          *the ambit of Combined Task Force 151, and contribu-*  
22          *tion of physical and military assets to the Defeat-*  
23          *ISIS Coalition since 2014, has contributed to global*  
24          *efforts to counter terrorism;*

1           (6) *in recognition of the enduring security part-*  
2 *nership between the United States and Singapore, the*  
3 *Secretary of State, in consultation with the Secretary*  
4 *of Defense, should, in negotiating the renewal of the*  
5 *“1990 Memorandum of Understanding Regarding the*  
6 *United States Use of Facilities in Singapore” that is*  
7 *due in 2020:*

8           (A) *reinforce Singapore’s status as a major*  
9 *security cooperation partner of the United*  
10 *States;*

11           (B) *enhance defense cooperation; and*

12           (C) *increase interoperability between the*  
13 *United States Armed Forces and Singaporean*  
14 *armed forces to promote peace and stability in*  
15 *the Asia-Pacific region.*

16           ***Subtitle F—Matters Relating to***  
17           ***Europe and NATO***

18           ***SEC. 1251. EXTENSION AND MODIFICATION OF NATO SPE-***  
19           ***CIAL OPERATIONS HEADQUARTERS.***

20           (a) *AUTHORIZATION.*—*Subsection (a) of section 1244*  
21 *of the National Defense Authorization Act for Fiscal Year*  
22 *2010 (Public Law 111–84; 123 Stat. 2541) is amended by*  
23 *striking “2020” and inserting “2023”.*

24           (b) *REPEAL OF CERTIFICATION; LIMITATION.*—*Such*  
25 *section is amended—*

1           (1) *by striking subsection (c); and*

2           (2) *by inserting after subsection (b) the following*  
3       *new subsection:*

4       “(c) *LIMITATION.*—*Of the amounts made available*  
5       *under subsection (a) for fiscal year 2020, not more than*  
6       *90 percent of such amounts may be obligated or expended*  
7       *until the Secretary of Defense, acting through the Assistant*  
8       *Secretary of Defense for Special Operations and Low Inten-*  
9       *sity Conflict, submits to the congressional defense commit-*  
10       *tees a report on the rearrangement of responsibilities for*  
11       *overseeing and supporting NSHQ from U.S. Special Oper-*  
12       *ations Command to U.S. European Command in 2019, in-*  
13       *cluding—*

14           “(1) *a justification and description of the impact*  
15       *of such rearrangement; and*

16           “(2) *a description of how such rearrangement*  
17       *will strengthen the role of the NSHQ in fostering spe-*  
18       *cial operations capabilities within NATO.”.*

19       “(c) *ANNUAL REPORT.*—*Such section, as so amended,*  
20       *is further amended by adding at the end the following new*  
21       *subsection:*

22       “(d) *ANNUAL REPORT.*—*Not later than March 1 of*  
23       *each year until 2024, the Secretary of Defense shall submit*  
24       *to the congressional defense committees and the Committee*  
25       *on Foreign Relations of the Senate and the Committee on*

1 *Foreign Affairs of the House of Representatives a report re-*  
2 *garding support for the NSHQ. Each report shall include*  
3 *the following:*

4           “(1) *The total amount of funding provided by*  
5 *the United States and other NATO nations to the*  
6 *NSHQ for operating costs of the NSHQ.*

7           “(2) *A description of the activities carried out*  
8 *with such funding, including—*

9                   “(A) *the amount of funding allocated for*  
10 *each such activity;*

11                   “(B) *the extent to which other NATO na-*  
12 *tions participate in each such activity;*

13                   “(C) *the extent to which each such activity*  
14 *is carried out in coordination or cooperation*  
15 *with the Joint Special Operations University;*

16                   “(D) *the extent to which each such activity*  
17 *is carried out in relation to other security co-*  
18 *operation activities, exercises, or operations of*  
19 *the Department of Defense;*

20                   “(E) *the extent to which each such activity*  
21 *is designed to meet the purposes set forth in*  
22 *paragraphs (1) through (5) of subsection (b); and*

23                   “(F) *an assessment of the extent to which*  
24 *each such activity will promote the mission of*  
25 *the NSHQ.*

1           “(3) *Other contributions, financial or in kind,*  
2           *provided by the United States and other NATO na-*  
3           *tions in support of the NSHQ.*

4           “(4) *Any other matters that the Secretary of De-*  
5           *fense considers appropriate.*”.

6 **SEC. 1252. MODIFICATION AND EXTENSION OF FUTURE**  
7           **YEARS PLAN AND PLANNING TRANSPARENCY**  
8           **FOR THE EUROPEAN DETERRENCE INITIA-**  
9           **TIVE.**

10           (a) *PLAN REQUIRED.*—Section 1273(a) of the National  
11 *Defense Authorization Act for Fiscal Year 2018 (Public*  
12 *Law 115–91; 131 Stat. 1696) is amended—*

13           (1) *in paragraph (1), by striking “the date of the*  
14 *enactment of this Act” and inserting “the date of the*  
15 *enactment of the National Defense Authorization Act*  
16 *for Fiscal Year 2020, and annually thereafter”;* and

17           (2) *in paragraph (2) to read as follows:*

18           “(2) *APPLICABILITY.*—*The initial plan shall*  
19 *apply with respect to fiscal year 2021 and at least the*  
20 *four succeeding fiscal years and each subsequent plan*  
21 *shall apply with respect to the next subsequent fiscal*  
22 *year and at least the four succeeding fiscal years.*”.

23           (b) *BUDGET DISPLAY INFORMATION.*—*The Secretary*  
24 *of Defense shall include in the materials submitted to Con-*  
25 *gress by the Secretary in support of the budget of the Presi-*

1 *dent for fiscal year 2021 and each fiscal year thereafter (as*  
2 *submitted under section 1105 of title 31, United States*  
3 *Code), a detailed budget display for the European Deter-*  
4 *rence Initiative that includes the following information (re-*  
5 *gardless of whether the funding line is for overseas contin-*  
6 *gency operations):*

7           (1) *With respect to procurement accounts—*

8                   (A) *amounts displayed by account, budget*  
9 *activity, line number, line item, and line item*  
10 *title; and*

11                   (B) *a description of the requirements for*  
12 *each such amounts specific to the Initiative.*

13           (2) *With respect to research, development, test,*  
14 *and evaluation accounts—*

15                   (A) *amounts displayed by account, budget*  
16 *activity, line number, program element, and pro-*  
17 *gram element title; and*

18                   (B) *a description of the requirements for*  
19 *each such amounts specific to the Initiative.*

20           (3) *With respect to operation and maintenance*  
21 *accounts—*

22                   (A) *amounts displayed by account title,*  
23 *budget activity title, line number, and sub-*  
24 *activity group title; and*

1           (B) a description of how such amounts will  
2           specifically be used.

3           (4) With respect to military personnel ac-  
4           counts—

5           (A) amounts displayed by account, budget  
6           activity, budget subactivity, and budget sub-  
7           activity title; and

8           (B) a description of the requirements for  
9           each such amounts specific to the Initiative.

10          (5) With respect to each project under military  
11          construction accounts (including with respect to un-  
12          specified minor military construction and amounts  
13          for planning and design), the country, location,  
14          project title, and project amount by fiscal year.

15 **SEC. 1253. PROTECTION OF EUROPEAN DETERRENCE INI-**  
16 **TIATIVE FUNDS FROM DIVERSION FOR**  
17 **OTHER PURPOSES.**

18          (a) *REPORT ON OBLIGATION OF FUNDS.*—

19           (1) *IN GENERAL.*—Not later than 15 days after  
20           any obligation of funds in an amount of \$10,000,000  
21           or more for the European Deterrence Initiative for  
22           fiscal year 2020 and each fiscal year thereafter, the  
23           Secretary of Defense shall submit to the congressional  
24           defense committees a report on that obligation of such  
25           funds for that fiscal year.

1           (2) *MATTERS TO BE INCLUDED.*—*Each report*  
2           *under paragraph (1) shall specify—*

3                   (A) *the activities and forms of assistance for*  
4                   *which the Secretary obligated such funds; and*

5                   (B) *the amount of the obligation.*

6           (b) *END OF FISCAL YEAR REPORT.*—*Not later than*  
7           *November 30, 2020, and annually thereafter, the Secretary*  
8           *of Defense shall submit to the congressional defense commit-*  
9           *tees a report that contains—*

10                   (1) *a detailed summary of funds obligated for the*  
11                   *European Deterrence Initiative for the preceding fis-*  
12                   *cal year; and*

13                   (2) *a detailed comparison of funds obligated for*  
14                   *the European Deterrence Initiative for the preceding*  
15                   *fiscal year to amounts requested for the Initiative for*  
16                   *that fiscal year in the materials submitted to Con-*  
17                   *gress by the Secretary in support of the budget of the*  
18                   *President for that fiscal year as required by section*  
19                   *1252(b), including with respect to each of the ac-*  
20                   *counts described in paragraphs (1), (2), (3), (4), and*  
21                   *(5) of section 1252(b) and the information required*  
22                   *under each such paragraph.*

1 **SEC. 1254. STATEMENT OF POLICY ON UNITED STATES MILI-**  
2 **TARY INVESTMENT IN EUROPE.**

3 *It is the policy of the United States to develop, imple-*  
4 *ment, and sustain a credible deterrent against aggression*  
5 *and long-term strategic competition by the Government of*  
6 *Russia in order to enhance regional and global security and*  
7 *stability, including by the following:*

8 (1) *Increased United States presence in Europe,*  
9 *including additional permanently stationed forces,*  
10 *continued rotational deployments, increased pre-posi-*  
11 *tioned military equipment, and sufficient and nec-*  
12 *essary infrastructure additions and improvements*  
13 *throughout Europe.*

14 (2) *Planning regarding the United States mili-*  
15 *tary footprint in Europe to recognize the essential*  
16 *role played by United States allies and partners in*  
17 *establishing deterrence and advancing regional and*  
18 *global security and stability.*

19 (3) *Commitment to the North Atlantic Treaty*  
20 *Organization (NATO) and its founding values and*  
21 *commitments by NATO allies to the common defense,*  
22 *including NATO goals regarding defense investments,*  
23 *and to NATO's founding principles of democracy, in-*  
24 *dividual liberty, and the rule of law.*

25 (4) *Planning to ensure the United States mili-*  
26 *tary footprint in Europe is holistic and geographi-*

1 *cally appropriate for a comprehensive response to the*  
2 *challenges posed by the Government of Russia across*  
3 *numerous European fronts.*

4 *(5) Commitment to United States Government*  
5 *investment and prioritization of efforts in Europe,*  
6 *particularly through efforts led by the Department of*  
7 *State, to counter the Government of Russia’s global*  
8 *campaign to interfere in and undermine democratic*  
9 *systems of government, elections, values, and institu-*  
10 *tions, and disrupt United States alliances and part-*  
11 *nerships, through indirect action (such as information*  
12 *operations intended to influence), including robust in-*  
13 *formation sharing and cooperation with partners and*  
14 *allies to counter influence campaigns and sufficient*  
15 *cyber, counter-messaging, and intelligence resources.*

16 *(6) Planning to take into account the importance*  
17 *of strategic stability, arms control, and strategic dia-*  
18 *logue as they contribute to United States national se-*  
19 *curity, collective defense, and regional and global se-*  
20 *curity.*

21 *(7) Encouraging increased communication by*  
22 *NATO officials, to raise awareness of the Alliance’s*  
23 *mission, efforts, and concerns achieved by actively en-*  
24 *gaging with Congress and the executive branch.*

1 **SEC. 1255. LIMITATION ON TRANSFER OF F-35 AIRCRAFT TO**  
2 **TURKEY.**

3 (a) *LIMITATION.*—*Except as provided in subsection*  
4 *(b), no funds authorized to be appropriated or otherwise*  
5 *made available to the Department of Defense for fiscal year*  
6 *2020 may be obligated or expended—*

7 (1) *to transfer, facilitate the transfer, or author-*  
8 *ize the transfer of, any F-35 aircraft or related sup-*  
9 *port equipment or parts to Turkey;*

10 (2) *to transfer intellectual property, technical*  
11 *data, or material support necessary for or related to*  
12 *any maintenance or support of the F-35 aircraft nec-*  
13 *essary to establish Turkey's indigenous F-35 capa-*  
14 *bility; or*

15 (3) *to construct a storage facility for, or other-*  
16 *wise facilitate the storage in Turkey of, any F-35 air-*  
17 *craft transferred to Turkey.*

18 (b) *EXCEPTION.*—*The Secretary of Defense, jointly*  
19 *with the Secretary of State, may waive the limitation under*  
20 *subsection (a) only if such Secretaries submit to the appro-*  
21 *priate congressional committees a written certification that*  
22 *contains a determination of such Secretaries, and any rel-*  
23 *evant documentation that forms the basis for the determina-*  
24 *tion, that—*

25 (1) *the Government of Turkey has provided cred-*  
26 *ible assurances that Turkey will not accept delivery*

1       of the S-400 air and missile defense system from  
2       Russia; or

3               (2) if the Government of Turkey has previously  
4       accepted delivery of the S-400 air and missile defense  
5       system from the Russia, the Government of Turkey—

6               (A) no longer possesses the S-400 air and  
7       missile defense system or any other equipment,  
8       materials, or personnel associated with such sys-  
9       tem; and

10              (B) has provided credible assurances that it  
11       will not in the future accept delivery of the S-  
12       400 air and missile defense system.

13       (c) *APPLICABILITY.*—The limitation under subsection  
14 (a) does not apply with respect to F-35 aircraft operated  
15 by the United States Armed Forces.

16       (d) *DEFINITIONS.*—In this section:

17              (1) *APPROPRIATE CONGRESSIONAL COMMIT-*  
18       *TEES.*—The term “appropriate congressional commit-  
19       tees” means—

20              (A) the congressional defense committees;  
21       and

22              (B) the Committee on Foreign Relations of  
23       the Senate and the Committee on Foreign Affairs  
24       of the House of Representatives.

1           (2) *TRANSFER.*—*The term “transfer” includes,*  
2           *with respect to an F–35 aircraft, the physical reloca-*  
3           *tion of the F–35 aircraft outside of the United States.*

4 **SEC. 1256. REPORT ON VALUE OF INVESTMENTS IN DUAL**  
5           **USE INFRASTRUCTURE PROJECTS BY NATO**  
6           **MEMBER STATES.**

7           (a) *IN GENERAL.*—*Not later than June 1, 2020, the*  
8           *Secretary of Defense, jointly with the Secretary of State,*  
9           *shall submit to the appropriate congressional committees a*  
10          *report on the value of investments in dual use infrastruc-*  
11          *ture projects by the member states of the North Atlantic*  
12          *Treaty Organization (NATO) in order to improve military*  
13          *mobility and interoperability across Europe.*

14          (b) *ELEMENTS.*—*The report required by subsection (a)*  
15          *shall include the following:*

16               (1) *The value to collective deterrence provided by*  
17               *investments in dual use infrastructure projects by the*  
18               *member states of NATO in order to meet the military*  
19               *mobility goals set out at the 2018 NATO Summit in*  
20               *Brussels.*

21               (2) *An assessment of proposed dual use infra-*  
22               *structure projects for NATO.*

23               (3) *A assessment of proposed of dual use infra-*  
24               *structure projects with respect to which the United*

1       *States can provide support, including a recommended*  
2       *prioritization of such projects.*

3       (c) *FORM.*—*The report required by subsection (a) shall*  
4       *be submitted in unclassified form, but may include a classi-*  
5       *fied annex.*

6       (d) *DEFINITIONS.*—*In this section:*

7           (1) *APPROPRIATE CONGRESSIONAL COMMIT-*  
8       *TEES.*—*The term “appropriate congressional commit-*  
9       *tees” means—*

10           (A) *the congressional defense committees;*

11           *and*

12           (B) *the Committee on Foreign Relations of*  
13       *the Senate and the Committee on Foreign Affairs*  
14       *of the House of Representatives.*

15           (2) *DUAL USE INFRASTRUCTURE PROJECTS.*—

16       *The term “dual use infrastructure projects” means*  
17       *those projects identified by the European Commission*  
18       *Action Plan on Military Mobility as necessary to im-*  
19       *prove the trans-European transport network (TEN-T)*  
20       *to meet the military requirements for military mobil-*  
21       *ity within and beyond the European Union.*

22       **SEC. 1257. SENSE OF CONGRESS ON SUPPORT FOR POLAND.**

23       (a) *FINDINGS.*—*Congress makes the following findings:*

24           (1) *Poland has been a valued member of the*  
25       *North Atlantic Treaty Organization (NATO) since*

1       *1999 and an important ally of the United States,*  
2       *contributing to the collective defense of NATO allies*  
3       *and deterrence in Europe.*

4               *(2) Poland has made significant contributions of*  
5       *forces to United States and NATO-led military oper-*  
6       *ations in Afghanistan, Iraq, Kosovo, and countering*  
7       *the Islamic State in Iraq and Syria.*

8               *(3) Poland contributed at least 2 percent of its*  
9       *gross domestic product to defense spending in 2018,*  
10       *meeting its commitment under the Wales Declaration.*

11               *(4) Poland currently hosts on a rotational basis*  
12       *United States forces from the Armored Combat Bri-*  
13       *gade Team, a Combat Aviation Brigade, a NATO en-*  
14       *hanced Forward Presence Battalion, and a U.S. Aegis*  
15       *Ashore missile defense site.*

16       *(b) SENSE OF CONGRESS.—It is the sense of Congress*  
17       *that—*

18               *(1) the United States reaffirms its support for*  
19       *the principle of collective defense in Article 5 of the*  
20       *North Atlantic Treaty for its NATO allies, including*  
21       *Poland;*

22               *(2) the United States appreciates the important*  
23       *role that Poland plays in NATO efforts to sustain*  
24       *credible deterrence in Europe;*

1           (3) the United States supports continued defense  
2 cooperation and continued exploration of opportuni-  
3 ties for joint military cooperation, infrastructure en-  
4 hancement, and defense investment with Poland; and

5           (4) the current and planned projects in Poland  
6 funded by the European Deterrence Initiative should  
7 be fully implemented in order to support existing and  
8 future United States military activity.

### 9           **Subtitle G—Other Matters**

#### 10 **SEC. 1261. SENSE OF CONGRESS ON UNITED STATES PART-** 11 **NERS AND ALLIES.**

12           *It is the sense of Congress that—*

13           (1) United States partners and allies are critical  
14 to achieving United States national security interests  
15 and defense objectives around the world;

16           (2) strong military-to-military relationships  
17 with partners and allies have helped to solidify and  
18 undergird the post-World War II international order  
19 and enhanced the United States' security through  
20 common defense; and

21           (3) the United States should pursue a long-term  
22 policy to strengthen existing military-to-military re-  
23 lationships and cooperation with partners and allies  
24 to achieve mutual objectives, and build new relation-  
25 ships based on common values and shared interests.

1 **SEC. 1262. MODIFICATION TO REPORT ON LEGAL AND POL-**  
2 **ICY FRAMEWORKS FOR THE USE OF MILITARY**  
3 **FORCE.**

4 *Section 1264 of the National Defense Authorization*  
5 *Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat.*  
6 *1689) is amended—*

7 *(1) in the heading for subsection (a), by striking*  
8 *“INITIAL” and inserting “ANNUAL”;*

9 *(2) in subsection (a)(1), by striking “90 days*  
10 *after the date of the enactment of this Act” and in-*  
11 *serting “March 1 of each year”; and*

12 *(3) in subsection (a)(2), by striking “during the*  
13 *period” and all that follows to the end and inserting*  
14 *“from the preceding year.”.*

15 **SEC. 1263. LIMITATION ON AVAILABILITY OF CERTAIN**  
16 **FUNDS UNTIL REPORT SUBMITTED ON DE-**  
17 **PARTMENT OF DEFENSE AWARDS AND DIS-**  
18 **CIPLINARY ACTION AS A RESULT OF THE 2017**  
19 **INCIDENT IN NIGER.**

20 *Of the funds authorized to be appropriated by this Act*  
21 *or otherwise made available for fiscal year 2020 for Oper-*  
22 *ation and Maintenance, Defense-Wide, Office of the Sec-*  
23 *retary of Defense, for Travel of Persons, not more than 80*  
24 *percent of such funds may be obligated or expended until*  
25 *the date on which the Secretary of Defense submits to the*  
26 *congressional defense committees a report that contains a*

1 *description of each award and disciplinary action issued,*  
2 *by rank, as a result of the AR 15-6 investigation findings*  
3 *relating to the incident in Niger in 2017. The report shall*  
4 *be submitted in a format that protects personally identifi-*  
5 *able information and is consistent with national security.*

6 **SEC. 1264. INDEPENDENT ASSESSMENT OF SUFFICIENCY OF**  
7 **RESOURCES AVAILABLE TO UNITED STATES**  
8 **SOUTHERN COMMAND AND UNITED STATES**  
9 **AFRICA COMMAND.**

10 (a) *IN GENERAL.*—*The Secretary of Defense shall seek*  
11 *to enter into a contract with a not-for-profit entity or feder-*  
12 *ally funded research and development center independent*  
13 *of the Department of Defense to conduct an assessment of*  
14 *the sufficiency of resources available to United States*  
15 *Southern Command and United States Africa Command*  
16 *to carry out their respective missions.*

17 (b) *MATTERS TO BE INCLUDED.*—*The assessment de-*  
18 *scribed in subsection (a) shall include—*

19 (1) *an assessment of the sufficiency of the re-*  
20 *sources available to United States Southern Com-*  
21 *mand and United States Africa Command, including*  
22 *personnel, human resources, and financial resources,*  
23 *in promoting United States national security inter-*  
24 *ests;*

1           (2) *an assessment of the level of regional exper-*  
2           *tise and experience of the leadership of each such com-*  
3           *batant command and their subordinate organizations,*  
4           *service components, and task forces, to include per-*  
5           *sonnel from agencies other than the Department of*  
6           *Defense;*

7           (3) *a description of the strategic objectives and*  
8           *end states in the geographic region for which each*  
9           *such combatant command has responsibility and a*  
10          *comparison of the importance and priority of the re-*  
11          *sources available to each such combatant command to*  
12          *perform its mission; and*

13          (4) *an assessment of the ability of each such*  
14          *combatant command to carry out such strategic objec-*  
15          *tives and end states, including an assessment of re-*  
16          *sources available, forces available, and other inter-*  
17          *agency resources available to the combatant com-*  
18          *mand.*

19          (c) *ACCESS TO INFORMATION.—The not-for-profit enti-*  
20          *ty or federally funded research and development center with*  
21          *which the Secretary enters into the contract under sub-*  
22          *section (a) shall have full and direct access to all informa-*  
23          *tion related to resources available to United States Southern*  
24          *Command and United States Africa Command.*

25          (d) *REPORT.—*

1           (1) *IN GENERAL.*—Not later than 240 days after  
2           the date of the enactment of this Act, the not-for-profit  
3           entity or federally funded research and development  
4           center with which the Secretary of Defense enters into  
5           the contract under subsection (a) shall submit to the  
6           Secretary of Defense, the Secretary of State, and the  
7           Administrator of the United States Agency for Inter-  
8           national Development a report that contains the as-  
9           sessment required by subsection (a).

10           (2) *SUBMISSION TO CONGRESS.*—Not later than  
11           1 year after the date of the enactment of this Act, the  
12           Secretary of Defense shall submit to the appropriate  
13           congressional committees—

14                   (A) a copy of such report without change;

15                   and

16                   (B) any comments, changes, recommenda-  
17                   tions, or other information of the Secretary of  
18                   Defense, the Secretary of State, and the Adminis-  
19                   trator of the United States Agency for Inter-  
20                   national Development relating to the assessment  
21                   required by subsection (a) and contained in such  
22                   report.

23           (e) *APPROPRIATE CONGRESSIONAL COMMITTEES DE-*  
24           *FINED.*—In this section, the term “appropriate congres-  
25           sional committees” means—

- 1           (1) *the congressional defense committees; and*
- 2           (2) *the Committee on Foreign Relations of the*
- 3           *Senate and the Committee on Foreign Affairs of the*
- 4           *House of Representatives.*

5 **SEC. 1265. RULE OF CONSTRUCTION RELATING TO USE OF**  
6                                   **MILITARY FORCE.**

7           *Nothing in this Act or any amendment made by this*  
8 *Act may be construed to authorize the use of military force.*

9 **SEC. 1266. RULE OF CONSTRUCTION RELATING TO USE OF**  
10                                   **MILITARY FORCE AGAINST VENEZUELA.**

11           *Nothing in this Act or any amendment made by this*  
12 *Act may be construed to authorize the use of military force*  
13 *against Venezuela.*

14 **SEC. 1267. SENSE OF CONGRESS ON ACQUISITION BY TUR-**  
15                                   **KEY OF PATRIOT SYSTEM.**

16           (a) *FINDINGS.—Congress finds the following:*

17                   (1) *The Government of Turkey has indicated in*  
18 *a communication to Congress that there remains an*  
19 *opportunity to meet Turkey’s requirement for an air*  
20 *and missile defense capability through the acquisition*  
21 *of the Patriot system from the United States.*

22                   (2) *The acquisition of the Patriot system could*  
23 *remove the need to acquire the S-400 air and missile*  
24 *defense system from Russia, which is incompatible*  
25 *with the integrated air and missile defense system of*

1 *the North Atlantic Treaty Organization (NATO) and*  
2 *should preclude Turkey's participation in the F-35*  
3 *Joint Strike Fighter (JSF) consortium program with*  
4 *the United States.*

5 *(b) SENSE OF CONGRESS.—Congress—*

6 *(1) supports the efforts of the United States Gov-*  
7 *ernment to achieve a satisfactory arrangement with*  
8 *Turkey by which Turkey acquires the Patriot system*  
9 *to defend its airspace, which would preserve Turkey*  
10 *as a production partner in the F-35 JSF consortium*  
11 *program;*

12 *(2) encourages the Department of Defense to se-*  
13 *cure the deployment of a Patriot system to Turkey,*  
14 *under United States or NATO operational control, for*  
15 *the purpose of providing Turkey with an interim ca-*  
16 *pability to address urgent vulnerabilities in Turkey's*  
17 *air and missile defense during the period in which an*  
18 *agreement is reached for Turkey's acquisition of the*  
19 *Patriot system; and*

20 *(3) notes that any such deployment of the Pa-*  
21 *triot or a NATO interoperable system in the interim*  
22 *is contingent on Turkey's commitment to cancel the*  
23 *S-400 air and missile defense system acquisition.*

1 ***Subtitle H—Baltic Reassurance Act***

2 ***SEC. 1271. FINDINGS.***

3 *Congress finds the following:*

4 *(1) Russia seeks to diminish the North Atlantic*  
5 *Treaty Organization (NATO) and recreate its sphere*  
6 *of influence in Europe using coercion, intimidation,*  
7 *and outright aggression.*

8 *(2) Deterring Russia from such aggression is*  
9 *vital for transatlantic security.*

10 *(3) The illegal occupation of Crimea by Russia*  
11 *and its continued engagement of destabilizing and*  
12 *subversive activities against independent and free*  
13 *states is of increasing concern.*

14 *(4) Russia also continues to disregard treaties,*  
15 *international laws and rights to freedom of naviga-*  
16 *tion, territorial integrity, and sovereign international*  
17 *borders.*

18 *(5) Russia's continued occupation of Georgian*  
19 *and Ukrainian territories and the sustained military*  
20 *buildup in Russia's Western Military District and*  
21 *Kaliningrad has threatened continental peace and*  
22 *stability.*

23 *(6) The Baltic countries of Estonia, Latvia, and*  
24 *Lithuania are particularly vulnerable to an increas-*  
25 *ingly aggressive and subversive Russia.*

1           (7) *In a declaration to celebrate 100 years of*  
2 *independence of Estonia, Latvia, and Lithuania*  
3 *issued on April 3, 2018, the Trump Administration*  
4 *reaffirmed United States commitments to these Baltic*  
5 *countries to “improve military readiness and capa-*  
6 *bilities through sustained security assistance” and*  
7 *“explore new ideas and opportunities, including air*  
8 *defense, bilaterally and in NATO, to enhance deter-*  
9 *rence across the region”.*

10           (8) *These highly valued NATO allies of the*  
11 *United States have repeatedly demonstrated their*  
12 *commitment to advancing mutual interests as well as*  
13 *those of the NATO alliance.*

14           (9) *The Baltic countries also continue to partici-*  
15 *cate in United States-led exercises to further promote*  
16 *coordination, cooperation, and interoperability*  
17 *among allies and partner countries, and continue to*  
18 *demonstrate their reliability and commitment to pro-*  
19 *vide for their own defense.*

20           (10) *Lithuania, Latvia, and Estonia each hosts*  
21 *a respected NATO Center of Excellence that provides*  
22 *expertise to educate and promote NATO allies and*  
23 *partners in areas of vital interest to the alliance.*

1           (11) *United States support and commitment to*  
2           *allies across Europe has been a lynchpin for peace*  
3           *and security on the continent for over 70 years.*

4 **SEC. 1272. SENSE OF CONGRESS.**

5           *It is the sense of Congress as follows:*

6           (1) *The United States is committed to the secu-*  
7           *rity of the Baltic countries and should strengthen co-*  
8           *operation and support capacity-building initiatives*  
9           *aimed at improving the defense and security of such*  
10          *countries.*

11          (2) *The United States should lead a multilateral*  
12          *effort to develop a strategy to deepen joint capabilities*  
13          *with Lithuania, Latvia, Estonia, NATO allies, and*  
14          *other regional partners, to deter against aggression*  
15          *from Russia in the Baltic region, specifically in areas*  
16          *that would strengthen interoperability, joint capabili-*  
17          *ties, and military readiness necessary for Baltic coun-*  
18          *tries to strengthen their national resilience.*

19          (3) *The United States should explore the feasi-*  
20          *bility of providing additional air and missile defense*  
21          *systems in the Baltic region, including through*  
22          *leveraging cost-sharing mechanisms and multilateral*  
23          *deployment with NATO allies to reduce financial bur-*  
24          *dens on host countries.*

1 **SEC. 1273. DEFENSE ASSESSMENT.**

2       (a) *IN GENERAL.*—Not later than 1 year after the date  
3 of the enactment of this Act, the Secretary of Defense and  
4 the Secretary of State shall jointly conduct a comprehen-  
5 sive, multilateral assessment of the military requirements  
6 of such countries to deter and resist aggression by Russia  
7 that—

8           (1) provides an assessment of past and current  
9 initiatives to improve the efficiency, effectiveness,  
10 readiness and interoperability of Lithuania, Latvia,  
11 and Estonia’s national defense capabilities; and

12           (2) assesses the manner in which to meet those  
13 objectives, including future resource requirements and  
14 recommendations, by undertaking activities in the fol-  
15 lowing areas:

16           (A) Activities to increase the rotational and  
17 forward presence, improve the capabilities, and  
18 enhance the posture and response readiness of the  
19 United States or forces of NATO in the Baltic  
20 region.

21           (B) Activities to improve air defense sys-  
22 tems, including modern air-surveillance capa-  
23 bilities.

24           (C) Activities to improve counter-unmanned  
25 aerial system capabilities.

1           (D) *Activities to improve command and*  
2 *control capabilities through increasing commu-*  
3 *nications, technology, and intelligence capacity*  
4 *and coordination, including secure and hardened*  
5 *communications.*

6           (E) *Activities to improve intelligence, sur-*  
7 *veillance, and reconnaissance capabilities.*

8           (F) *Activities to enhance maritime domain*  
9 *awareness.*

10          (G) *Activities to improve military and de-*  
11 *fense infrastructure, logistics, and access, par-*  
12 *ticularly transport of military supplies and*  
13 *equipment.*

14          (H) *Investments to ammunition stocks and*  
15 *storage.*

16          (I) *Activities and training to enhance cyber*  
17 *security and electronic warfare capabilities.*

18          (J) *Bilateral and multilateral training and*  
19 *exercises.*

20          (K) *New and existing cost-sharing mecha-*  
21 *nisms with United States and NATO allies to re-*  
22 *duce financial burden.*

23          (b) *REPORT.—Not later than 1 year after the date of*  
24 *the enactment of this Act, the Secretary of Defense and the*  
25 *Secretary of State jointly shall submit to the appropriate*

1 congressional committees a report, which shall be submitted  
2 in unclassified form but may include a classified annex,  
3 that includes each of the following:

4 (1) A report on the findings of the assessment  
5 conducted pursuant to subsection (a).

6 (2) A list of any recommendations resulting from  
7 such assessment.

8 (3) An assessment of the resource requirements to  
9 achieve the objectives described in subsection (a)(1)  
10 with respect to the national defense capability of Bal-  
11 tic countries, including potential investments by host  
12 countries.

13 (4) A plan for the United States to use appro-  
14 priate security cooperation authorities or other au-  
15 thorities to—

16 (A) facilitate relevant recommendations in-  
17 cluded in the list described in paragraph (2);

18 (B) expand joint training between the  
19 Armed Forces and the military of Lithuania,  
20 Latvia, or Estonia, including with the participa-  
21 tion of other NATO allies; and

22 (C) support United States foreign military  
23 sales and other equipment transfers to Baltic  
24 countries especially for the activities described in

1           subparagraphs (A) through (I) of subsection  
2           (a)(2).

3 **SEC. 1274. APPROPRIATE CONGRESSIONAL COMMITTEES**

4           **DEFINED.**

5           *In this subtitle, the term “appropriate congressional*  
6 *committees” means—*

7           (1) *the Committee on Armed Services, the Com-*  
8 *mittee on Foreign Affairs, the Permanent Select Com-*  
9 *mittee on Intelligence, and the Committee on Appro-*  
10 *propriations of the House of Representatives; and*

11           (2) *the Committee on Armed Services, the Com-*  
12 *mittee on Foreign Relations, the Select Committee on*  
13 *Intelligence, and the Committee on Appropriations of*  
14 *the Senate.*

15           **TITLE XIII—COOPERATIVE**  
16           **THREAT REDUCTION**

17 **SEC. 1301. FUNDING ALLOCATIONS.**

18           *Of the \$338,700,000 authorized to be appropriated to*  
19 *the Department of Defense for fiscal year 2020 in section*  
20 *301 and made available by the funding table in division*  
21 *D for the Department of Defense Cooperative Threat Reduc-*  
22 *tion Program established under section 1321 of the Depart-*  
23 *ment of Defense Cooperative Threat Reduction Act (50*  
24 *U.S.C. 3711), the following amounts may be obligated for*  
25 *the purposes specified:*

1           (1) *For strategic offensive arms elimination,*  
2           \$492,000.

3           (2) *For chemical weapons destruction,*  
4           \$12,856,000.

5           (3) *For global nuclear security, \$33,919,000.*

6           (4) *For cooperative biological engagement,*  
7           \$183,642,000.

8           (5) *For proliferation prevention, \$79,869,000.*

9           (6) *For activities designated as Other Assess-*  
10          *ments/Administrative Costs, \$27,922,000.*

11 **SEC. 1302. SPECIFICATION OF COOPERATIVE THREAT RE-**  
12                                   **DUCTION FUNDS.**

13          *Funds appropriated pursuant to the authorization of*  
14          *appropriations in section 301 and made available by the*  
15          *funding table in division D for the Department of Defense*  
16          *Cooperative Threat Reduction Program shall be available*  
17          *for obligation for fiscal years 2020, 2021, and 2022.*

18                                   **TITLE XIV—OTHER**  
19                                   **AUTHORIZATIONS**  
20          ***Subtitle A—Military Programs***

21 **SEC. 1401. WORKING CAPITAL FUNDS.**

22          *Funds are hereby authorized to be appropriated for fis-*  
23          *cal year 2020 for the use of the Armed Forces and other*  
24          *activities and agencies of the Department of Defense for*

1 *providing capital for working capital and revolving funds,*  
2 *as specified in the funding table in section 4501.*

3 **SEC. 1402. CHEMICAL AGENTS AND MUNITIONS DESTRUC-**  
4 **TION, DEFENSE.**

5 *(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are*  
6 *hereby authorized to be appropriated for the Department*  
7 *of Defense for fiscal year 2020 for expenses, not otherwise*  
8 *provided for, for Chemical Agents and Munitions Destruc-*  
9 *tion, Defense, as specified in the funding table in section*  
10 *4501.*

11 *(b) USE.—Amounts authorized to be appropriated*  
12 *under subsection (a) are authorized for—*

13 *(1) the destruction of lethal chemical agents and*  
14 *munitions in accordance with section 1412 of the De-*  
15 *partment of Defense Authorization Act, 1986 (50*  
16 *U.S.C. 1521); and*

17 *(2) the destruction of chemical warfare materiel*  
18 *of the United States that is not covered by section*  
19 *1412 of such Act.*

20 **SEC. 1403. DRUG INTERDICTION AND COUNTER-DRUG AC-**  
21 **TIVITIES, DEFENSE-WIDE.**

22 *Funds are hereby authorized to be appropriated for the*  
23 *Department of Defense for fiscal year 2020 for expenses, not*  
24 *otherwise provided for, for Drug Interdiction and Counter-*

1 *Drug Activities, Defense-wide, as specified in the funding*  
2 *table in section 4501.*

3 **SEC. 1404. DEFENSE INSPECTOR GENERAL.**

4 *Funds are hereby authorized to be appropriated for the*  
5 *Department of Defense for fiscal year 2020 for expenses, not*  
6 *otherwise provided for, for the Office of the Inspector Gen-*  
7 *eral of the Department of Defense, as specified in the fund-*  
8 *ing table in section 4501.*

9 **SEC. 1405. DEFENSE HEALTH PROGRAM.**

10 *Funds are hereby authorized to be appropriated for fis-*  
11 *cal year 2020 for the Defense Health Program for use of*  
12 *the Armed Forces and other activities and agencies of the*  
13 *Department of Defense for providing for the health of eligi-*  
14 *ble beneficiaries, as specified in the funding table in section*  
15 *4501.*

16 **SEC. 1406. NATIONAL DEFENSE SEALIFT FUND.**

17 *Funds are hereby authorized to be appropriated for fis-*  
18 *cal year 2020 for the National Defense Sealift Fund, as*  
19 *specified in the funding tables in section 4501.*

**Subtitle B—Other Matters**

1                   **SEC. 1411. AUTHORITY FOR TRANSFER OF FUNDS TO JOINT**  
2                                   **DEPARTMENT OF DEFENSE-DEPARTMENT OF**  
3                                   **VETERANS AFFAIRS MEDICAL FACILITY DEM-**  
4                                   **ONSTRATION FUND FOR CAPTAIN JAMES A.**  
5                                   **LOVELL HEALTH CARE CENTER, ILLINOIS.**  
6

7           (a) *AUTHORITY FOR TRANSFER OF FUNDS.*—Of the  
8 *funds authorized to be appropriated by section 1405 and*  
9 *available for the Defense Health Program for operation and*  
10 *maintenance, \$127,500,000 may be transferred by the Sec-*  
11 *retary of Defense to the Joint Department of Defense-De-*  
12 *partment of Veterans Affairs Medical Facility Demonstra-*  
13 *tion Fund established by subsection (a)(1) of section 1704*  
14 *of the National Defense Authorization Act for Fiscal Year*  
15 *2010 (Public Law 111–84; 123 Stat. 2571). For purposes*  
16 *of subsection (a)(2) of such section 1704, any funds so*  
17 *transferred shall be treated as amounts authorized and ap-*  
18 *propriated specifically for the purpose of such a transfer.*

19           (b) *USE OF TRANSFERRED FUNDS.*—For the purposes  
20 *of subsection (b) of such section 1704, facility operations*  
21 *for which funds transferred under subsection (a) may be*  
22 *used are operations of the Captain James A. Lovell Federal*  
23 *Health Care Center, consisting of the North Chicago Vet-*  
24 *erans Affairs Medical Center, the Navy Ambulatory Care*  
25 *Center, and supporting facilities designated as a combined*

1 *Federal medical facility under an operational agreement*  
2 *covered by section 706 of the Duncan Hunter National De-*  
3 *fense Authorization Act for Fiscal Year 2009 (Public Law*  
4 *110–417; 122 Stat. 4500).*

5 **SEC. 1412. AUTHORIZATION OF APPROPRIATIONS FOR**  
6 **ARMED FORCES RETIREMENT HOME.**

7 *There is hereby authorized to be appropriated for fiscal*  
8 *year 2020 from the Armed Forces Retirement Home Trust*  
9 *Fund the sum of \$64,300,000 for the operation of the Armed*  
10 *Forces Retirement Home.*

11 **TITLE XV—AUTHORIZATION OF**  
12 **ADDITIONAL APPROPRIA-**  
13 **TIONS FOR OVERSEAS CON-**  
14 **TINGENCY OPERATIONS**

15 **Subtitle A—Authorization of**  
16 **Appropriations**

17 **SEC. 1501. PURPOSE.**

18 *The purpose of this title is to authorize appropriations*  
19 *for the Department of Defense for fiscal year 2020 to pro-*  
20 *vide additional funds for overseas contingency operations*  
21 *being carried out by the Armed Forces.*

22 **SEC. 1502. PROCUREMENT.**

23 *Funds are hereby authorized to be appropriated for fis-*  
24 *cal year 2020 for procurement accounts for the Army, the*  
25 *Navy and the Marine Corps, the Air Force, and Defense-*

1 *wide activities, as specified in the funding table in section*  
2 *4102.*

3 **SEC. 1503. RESEARCH, DEVELOPMENT, TEST, AND EVALUA-**  
4 **TION.**

5 *Funds are hereby authorized to be appropriated for fis-*  
6 *cal year 2020 for the use of the Department of Defense for*  
7 *research, development, test, and evaluation, as specified in*  
8 *the funding table in section 4202.*

9 **SEC. 1504. OPERATION AND MAINTENANCE.**

10 *Funds are hereby authorized to be appropriated for fis-*  
11 *cal year 2020 for the use of the Armed Forces and other*  
12 *activities and agencies of the Department of Defense for ex-*  
13 *penses, not otherwise provided for, for operation and main-*  
14 *tenance, as specified in the funding table in section 4302.*

15 **SEC. 1505. MILITARY PERSONNEL.**

16 *Funds are hereby authorized to be appropriated for fis-*  
17 *cal year 2020 for the use of the Armed Forces and other*  
18 *activities and agencies of the Department of Defense for ex-*  
19 *penses, not otherwise provided for, military personnel ac-*  
20 *counts, as specified in the funding table in section 4402.*

21 **SEC. 1506. WORKING CAPITAL FUNDS.**

22 *Funds are hereby authorized to be appropriated for fis-*  
23 *cal year 2020 for the use of the Armed Forces and other*  
24 *activities and agencies of the Department of Defense for*

1 *providing capital for working capital and revolving funds,*  
2 *as specified in the funding table in section 4502.*

3 **SEC. 1507. DRUG INTERDICTION AND COUNTER-DRUG AC-**  
4 **TIVITIES, DEFENSE-WIDE.**

5 *Funds are hereby authorized to be appropriated for the*  
6 *Department of Defense for fiscal year 2020 for expenses, not*  
7 *otherwise provided for, for Drug Interdiction and Counter-*  
8 *Drug Activities, Defense-wide, as specified in the funding*  
9 *table in section 4502.*

10 **SEC. 1508. DEFENSE INSPECTOR GENERAL.**

11 *Funds are hereby authorized to be appropriated for the*  
12 *Department of Defense for fiscal year 2020 for expenses, not*  
13 *otherwise provided for, for the Office of the Inspector Gen-*  
14 *eral of the Department of Defense, as specified in the fund-*  
15 *ing table in section 4502.*

16 **SEC. 1509. DEFENSE HEALTH PROGRAM.**

17 *Funds are hereby authorized to be appropriated for the*  
18 *Department of Defense for fiscal year 2020 for expenses, not*  
19 *otherwise provided for, for the Defense Health Program, as*  
20 *specified in the funding table in section 4502.*

21 ***Subtitle B—Financial Matters***

22 **SEC. 1511. TREATMENT AS ADDITIONAL AUTHORIZATIONS.**

23 *The amounts authorized to be appropriated by this*  
24 *title are in addition to amounts otherwise authorized to be*  
25 *appropriated by this Act.*

1 **SEC. 1512. SPECIAL TRANSFER AUTHORITY.**

2 *(a) AUTHORITY TO TRANSFER AUTHORIZATIONS.—*

3 *(1) AUTHORITY.—Upon determination by the*  
4 *Secretary of Defense that such action is necessary in*  
5 *the national interest, the Secretary may transfer*  
6 *amounts of authorizations made available to the De-*  
7 *partment of Defense in this title for fiscal year 2019*  
8 *between any such authorizations for that fiscal year*  
9 *(or any subdivisions thereof). Amounts of authoriza-*  
10 *tions so transferred shall be merged with and be*  
11 *available for the same purposes as the authorization*  
12 *to which transferred.*

13 *(2) LIMITATION.—The total amount of author-*  
14 *izations that the Secretary may transfer under the*  
15 *authority of this subsection may not exceed*  
16 *\$500,000,000.*

17 *(b) TERMS AND CONDITIONS.—*

18 *(1) IN GENERAL.—Transfers under this section*  
19 *shall be subject to the same terms and conditions as*  
20 *transfers under section 1001.*

21 *(2) ADDITIONAL LIMITATION ON TRANSFERS FOR*  
22 *DRUG INTERDICTION AND COUNTER DRUG ACTIVI-*  
23 *TIES.—The authority provided by subsection (a) may*  
24 *not be used to transfer any amount to Drug Interdic-*  
25 *tion and Counter Drug Activities, Defense-wide.*

1           (c) *ADDITIONAL AUTHORITY.*—*The transfer authority*  
2 *provided by this section is in addition to the transfer au-*  
3 *thority provided under section 1001.*

4                           ***Subtitle C—Other Matters***

5   ***SEC. 1521. AFGHANISTAN SECURITY FORCES FUND.***

6           (a) *CONTINUATION OF PRIOR AUTHORITIES AND NO-*  
7 *TICE AND REPORTING REQUIREMENTS.*—*Funds available*  
8 *to the Department of Defense for the Afghanistan Security*  
9 *Forces Fund for fiscal year 2020 shall be subject to the con-*  
10 *ditions contained in—*

11                   (1) *subsections (b) through (f) of section 1513 of*  
12 *the National Defense Authorization Act for Fiscal*  
13 *Year 2008 (Public Law 110–181; 122 Stat. 428); and*

14                   (2) *section 1521(d)(1) of the National Defense*  
15 *Authorization Act for Fiscal Year 2017 (Public Law*  
16 *114–328; 130 Stat. 2577).*

17           (b) *EQUIPMENT DISPOSITION.*—

18                   (1) *ACCEPTANCE OF CERTAIN EQUIPMENT.*—*Sub-*  
19 *ject to paragraph (2), the Secretary of Defense may*  
20 *accept equipment that is procured using amounts au-*  
21 *thorized to be appropriated for the Afghanistan Secu-*  
22 *rity Forces Fund by this Act and is intended for*  
23 *transfer to the security forces of the Ministry of De-*  
24 *fense and the Ministry of the Interior of the Govern-*

1 *ment of Afghanistan, but is not accepted by such secu-*  
2 *rity forces.*

3 (2) *CONDITIONS ON ACCEPTANCE OF EQUIP-*  
4 *MENT.—Before accepting any equipment under the*  
5 *authority provided by paragraph (1), the Commander*  
6 *of United States forces in Afghanistan shall make a*  
7 *determination that such equipment was procured for*  
8 *the purpose of meeting requirements of the security*  
9 *forces of the Ministry of Defense and the Ministry of*  
10 *the Interior of the Government of Afghanistan, as*  
11 *agreed to by both the Government of Afghanistan and*  
12 *the Government of the United States, but is no longer*  
13 *required by such security forces or was damaged be-*  
14 *fore transfer to such security forces.*

15 (3) *ELEMENTS OF DETERMINATION.—In making*  
16 *a determination under paragraph (2) regarding*  
17 *equipment, the Commander of United States forces in*  
18 *Afghanistan shall consider alternatives to the accept-*  
19 *ance of such equipment by the Secretary. An expla-*  
20 *nation of each determination, including the basis for*  
21 *the determination and the alternatives considered,*  
22 *shall be included in the relevant quarterly report re-*  
23 *quired under paragraph (5).*

24 (4) *TREATMENT AS DEPARTMENT OF DEFENSE*  
25 *STOCKS.—Equipment accepted under the authority*

1       *provided by paragraph (1) may be treated as stocks*  
2       *of the Department of Defense upon notification to the*  
3       *congressional defense committees of such treatment.*

4               (5) *QUARTERLY REPORTS ON EQUIPMENT DIS-*  
5       *POSITION.—*

6               (A) *IN GENERAL.—Not later than 90 days*  
7       *after the date of the enactment of this Act and*  
8       *every 90-day period thereafter during which the*  
9       *authority provided by paragraph (1) is exer-*  
10       *cised, the Secretary shall submit to the congres-*  
11       *sional defense committees a report describing the*  
12       *equipment accepted during the period covered by*  
13       *such report under the following:*

14               (i) *This subsection.*

15               (ii) *Section 1521(b) of the National*  
16       *Defense Authorization Act for Fiscal Year*  
17       *2017 (Public Law 114–328; 130 Stat.*  
18       *2575).*

19               (iii) *Section 1531(b) of the National*  
20       *Defense Authorization Act for Fiscal Year*  
21       *2016 (Public Law 114–92; 129 Stat. 1088).*

22               (iv) *Section 1532(b) of the Carl Levin*  
23       *and Howard P. “Buck” McKeon National*  
24       *Defense Authorization Act for Fiscal Year*

1                   2015 (Public Law 113–291; 128 Stat.  
2                   3613).

3                   (v) Section 1531(d) of the National De-  
4                   fense Authorization Act for Fiscal Year  
5                   2014 (Public Law 113–66; 127 Stat. 938;  
6                   10 U.S.C. 2302 note).

7                   (B) *ELEMENTS.*—Each report under sub-  
8                   paragraph (A) shall include a list of all equip-  
9                   ment that was accepted during the period cov-  
10                  ered by such report and treated as stocks of the  
11                  Department of Defense and copies of the deter-  
12                  minations made under paragraph (2), as re-  
13                  quired by paragraph (3).

14                  (c) *SECURITY OF AFGHAN WOMEN.*—

15                  (1) *IN GENERAL.*—Of the funds available to the  
16                  Department of Defense for the Afghan Security Forces  
17                  Fund for fiscal year 2020, it is the goal that  
18                  \$45,500,000, but in no event less than \$10,000,000,  
19                  shall be used for—

20                  (A) the recruitment, integration, retention,  
21                  training, and treatment of women in the Afghan  
22                  National Defense and Security Forces; and

23                  (B) the recruitment, training, and con-  
24                  tracting of female security personnel for future  
25                  elections.

1           (2) *TYPES OF PROGRAMS AND ACTIVITIES.*—*Such*  
2           *programs and activities may include—*

3                   (A) *efforts to recruit and retain women into*  
4                   *the Afghan National Defense and Security*  
5                   *Forces, including the special operations forces;*

6                   (B) *programs and activities of the Direc-*  
7                   *torate of Human Rights and Gender Integration*  
8                   *of the Ministry of Defense of Afghanistan and the*  
9                   *Office of Human Rights, Gender and Child*  
10                   *Rights of the Ministry of Interior of Afghanistan;*

11                   (C) *development and dissemination of gen-*  
12                   *der and human rights educational and training*  
13                   *materials and programs within the Ministry of*  
14                   *Defense and the Ministry of Interior of Afghani-*  
15                   *stan;*

16                   (D) *efforts to address harassment and vio-*  
17                   *lence against women within the Afghan National*  
18                   *Defense and Security Forces;*

19                   (E) *improvements to infrastructure that ad-*  
20                   *dress the requirements of women serving in the*  
21                   *Afghan National Defense and Security Forces,*  
22                   *including appropriate equipment for female se-*  
23                   *curity and police forces, and transportation for*  
24                   *policewomen to their station;*

1                   (F) support for Afghanistan National Police  
2                   Family Response Units; and

3                   (G) security provisions for high-profile fe-  
4                   male police and military officers.

5           (d) ASSESSMENT OF AFGHANISTAN PROGRESS ON OB-  
6 JECTIVES.—

7                   (1) ASSESSMENT REQUIRED.—Not later than  
8                   June 1, 2020, the Secretary of Defense shall, in con-  
9                   sultation with the Secretary of State, submit to the  
10                   Committee on Armed Services and the Committee on  
11                   Foreign Affairs of the House of Representatives and  
12                   the Committee on Armed Services and the Committee  
13                   on Foreign Relations of the Senate an assessment de-  
14                   scribing—

15                   (A) the progress of the Government of the  
16                   Islamic Republic of Afghanistan toward meeting  
17                   shared security objectives; and

18                   (B) the efforts of the Government of the Is-  
19                   lamic Republic of Afghanistan to manage, em-  
20                   ploy, and sustain the equipment and inventory  
21                   provided under subsection (a).

22                   (2) MATTERS TO BE INCLUDED.—In conducting  
23                   the assessment required by paragraph (1), the Sec-  
24                   retary of Defense shall include each of the following:

1           (A) A consideration of the extent to which  
2           the Government of Afghanistan has a strategy  
3           for, and has taken steps toward, increased ac-  
4           countability and the reduction of corruption  
5           within the Ministry of Defense and the Ministry  
6           of Interior of Afghanistan.

7           (B) A consideration of the extent to which  
8           the capability and capacity of the Afghan Na-  
9           tional Defense and Security Forces have im-  
10          proved as a result of Afghanistan Security  
11          Forces Fund investment, including through  
12          training, and an articulation of the metrics used  
13          to assess such improvements.

14          (C) A consideration of the extent to which  
15          the Afghan National Defense and Security Forces  
16          have been able to increase pressure on the  
17          Taliban, al-Qaeda, the Haqqani network, the Is-  
18          lamic State of Iraq and Syria-Khorasan, and  
19          other terrorist organizations, including by re-  
20          taking territory, defending territory, and dis-  
21          rupting attacks.

22          (D) A consideration of the distribution  
23          practices of the Afghan National Defense and Se-  
24          curity Forces and whether the Government of Af-  
25          ghanistan is ensuring that supplies, equipment,

1           *and weaponry supplied by the United States are*  
2           *appropriately distributed to, and employed by,*  
3           *security forces charged with fighting the Taliban*  
4           *and other terrorist organizations.*

5           *(E) A consideration of the extent to which*  
6           *the Government of Afghanistan has designated*  
7           *the appropriate staff, prioritized the development*  
8           *of relevant processes, and provided or requested*  
9           *the allocation of resources necessary to support a*  
10          *peace and reconciliation process in Afghanistan.*

11          *(F) A description of the ability of the Min-*  
12          *istry of Defense and the Ministry of Interior of*  
13          *Afghanistan to manage and account for pre-*  
14          *viously divested equipment, including a descrip-*  
15          *tion of any vulnerabilities or weaknesses of the*  
16          *internal controls of such Ministry of Defense and*  
17          *Ministry of Interior and any plan in place to*  
18          *address shortfalls.*

19          *(G) A description of the monitoring and*  
20          *evaluation systems in place to ensure assistance*  
21          *provided under subsection (a) is used only for*  
22          *the intended purposes.*

23          *(H) A description of any significant irreg-*  
24          *ularities in the divestment of equipment to the*  
25          *Afghan National Defense and Security Forces*

1           *during the period beginning on May 1, 2019,*  
2           *and ending on May 1, 2020, including any*  
3           *major losses of such equipment or any inability*  
4           *on the part of the Afghan National Defense and*  
5           *Security Forces to account for equipment so pro-*  
6           *cured.*

7           *(I) A description of the sustainment and*  
8           *maintenance costs required during the period be-*  
9           *ginning on May 1, 2019, and ending on May 1,*  
10          *2020, for major weapons platforms previously*  
11          *divested, and a plan for how the Afghan Na-*  
12          *tional Defense and Security Forces intends to*  
13          *maintain such platforms in the future.*

14          *(J) A consideration of the extent to which*  
15          *the Government of Afghanistan is adhering to*  
16          *conditions for receiving assistance established in*  
17          *annual financial commitment letters or any*  
18          *other bilateral agreements with the United*  
19          *States.*

20          *(K) A consideration of the extent to which*  
21          *the Government of Afghanistan has made*  
22          *progress in achieving security sector benchmarks*  
23          *as outlined by the United States-Afghan Com-*  
24          *pact (commonly known as the “Kabul Com-*  
25          *pact”).*

1           (L) *Such other factors as the Secretaries*  
2           *consider appropriate.*

3           (3) *FORM.—The assessment required by para-*  
4           *graph (1) shall be submitted in unclassified form, but*  
5           *may include a classified annex.*

6           (4) *WITHHOLDING OF ASSISTANCE FOR INSUFFI-*  
7           *CIENT PROGRESS.—*

8           (A) *IN GENERAL.—If the Secretary of De-*  
9           *fense determines, in coordination with the Sec-*  
10          *retary of State and pursuant to the assessment*  
11          *under paragraph (1), that the Government of Af-*  
12          *ghanistan has made insufficient progress in the*  
13          *areas described in paragraph (2), the Secretary*  
14          *of Defense shall—*

15               (i) *withhold \$480,000,000, to be de-*  
16               *derived from amounts made available for as-*  
17               *sistance for the Afghan National Defense*  
18               *and Security Forces, from expenditure or*  
19               *obligation until the date on which the Sec-*  
20               *retary certifies to Congress that the Govern-*  
21               *ment of Afghanistan has made sufficient*  
22               *progress; and*

23               (ii) *notify Congress not later than 30*  
24               *days before withholding such funds.*

1           (B) *WAIVER.*—*If the Secretary of Defense*  
2           *determines that withholding such assistance*  
3           *would impede the national security objectives of*  
4           *the United States by prohibiting, restricting, de-*  
5           *laying, or otherwise limiting the provision of as-*  
6           *sistance, the Secretary may waive the with-*  
7           *holding requirement under subparagraph (A) if*  
8           *the Secretary, in coordination with the Secretary*  
9           *of State, certifies such determination to Congress*  
10           *not later than 30 days before the effective date of*  
11           *the waiver.*

12   **TITLE XVI—STRATEGIC PRO-**  
13   **GRAMS, CYBER, AND INTEL-**  
14   **LIGENCE MATTERS**

15    **Subtitle A—Space Activities**

16   **SEC. 1601. NATIONAL SECURITY SPACE LAUNCH PROGRAM.**

17       (a) *SENSE OF CONGRESS.*—*It is the sense of Congress*  
18       *that—*

19           (1) *ensuring opportunities for future competition*  
20       *in the National Security Space Launch program of*  
21       *the Air Force will decrease the overall cost of the pro-*  
22       *gram and increase the likelihood of success with re-*  
23       *spect to the Department of Defense stopping the use*  
24       *of Russian-made RD–180 rocket engines, as required*  
25       *by section 1608 of the Carl Levin and Howard P.*

1       *“Buck” McKeon National Defense Authorization Act*  
2       *for Fiscal Year 2015 (Public Law 113–291; 10 U.S.C.*  
3       *2271 note); and*

4             (2) *while Congress supports robust competition*  
5       *within the National Security Space Launch program,*  
6       *Congress recognizes the importance of providing a*  
7       *regular launch manifest and incentives for a robust*  
8       *industrial base to support national security require-*  
9       *ments.*

10       (b) *PHASE TWO ACQUISITION STRATEGY.—In car-*  
11       *rying out the phase two acquisition strategy, the Secretary*  
12       *of the Air Force—*

13             (1) *shall ensure, except as provided by subsection*  
14       *(c), that launch services are procured only from Na-*  
15       *tional Security Space Launch providers that are*  
16       *offerors using launch vehicles or families of launch ve-*  
17       *hicles that meet all of the requirements of the Air*  
18       *Force for the delivery of all required payloads to all*  
19       *reference orbits; and*

20             (2) *may not substantially change the acquisition*  
21       *schedule or mission performance requirements.*

22       (c) *COMPETITIVE PROCEDURES.—If the Secretary of*  
23       *the Air Force awards phase two contracts for more than*  
24       *a total of 29 launches, the Secretary shall ensure that each*  
25       *such contract for any launch after the 29th launch is*

1 *awarded using competitive procedures among all National*  
2 *Security Space Launch providers.*

3 *(d) FUNDING FOR CERTIFICATION AND INFRASTRUC-*  
4 *TURE.—*

5 *(1) AUTHORITY.—Pursuant to section 2371b of*  
6 *title 10, United States Code, the Secretary of the Air*  
7 *Force shall enter into an agreement described in*  
8 *paragraph (2) with either National Security Space*  
9 *Launch providers that have not entered into a phase*  
10 *two contract for launch services occurring before fiscal*  
11 *year 2022 or National Security Space Launch pro-*  
12 *viders that have entered into a phase two contract but*  
13 *have not entered into a launch services agreement for*  
14 *such phase, or both.*

15 *(2) AGREEMENTS.—An agreement described in*  
16 *this paragraph is an agreement that provides a Na-*  
17 *tional Security Space Launch provider with not more*  
18 *than \$500,000,000 for the provider to meet the certifi-*  
19 *cation and infrastructure requirements that are—*

20 *(A) unique to national security space mis-*  
21 *sions; and*

22 *(B) necessary for a phase two contract, in-*  
23 *cluding such contracts described in subsection*  
24 *(c).*

1           (e) *DOWN SELECT NOTIFICATION.*—*The Under Sec-*  
2 *retary of Defense for Acquisition and Sustainment, in co-*  
3 *ordination with the Secretary of the Air Force, shall submit*  
4 *to the appropriate congressional committees written notifi-*  
5 *cation of the two National Security Space Launch pro-*  
6 *viders selected during fiscal year 2020 by the Secretary of*  
7 *the Air Force to be awarded phase two contracts not later*  
8 *than 10 days before the Secretary publicly announces such*  
9 *selection. The notification shall include, at a minimum—*

- 10                   (1) *an identification of the selected providers;*  
11                   (2) *the evaluation criteria used in the selection;*  
12                   (3) *the total costs to the Air Force for such con-*  
13 *tracts; and*  
14                   (4) *a risk assessment of the selected providers in*  
15 *meeting national security requirements.*

16           (f) *REPORT.*—*Not later than 45 days after the date*  
17 *on which the Secretary of the Air Force awards phase two*  
18 *contracts during fiscal year 2020, the Secretary shall sub-*  
19 *mit to the appropriate congressional committees a report*  
20 *on—*

- 21                   (1) *the total defense investments made with re-*  
22 *spect to launch service agreements and engine devel-*  
23 *opment for each National Security Space Launch*  
24 *provider so awarded such phase two contracts; and*

1           (2) *how such investments in launch service pro-*  
2           *viders were accounted for in the evaluation of the of-*  
3           *fers for such phase two contracts.*

4           (g) *DEFINITIONS.—In this section:*

5           (1) *The term “appropriate congressional com-*  
6           *mittees” means—*

7           (A) *the congressional defense committees;*

8           *and*

9           (B) *the Permanent Select Committee on In-*  
10           *telligence of the House of Representatives and the*  
11           *Select Committee on Intelligence of the Senate.*

12           (2) *The term “phase two acquisition strategy”*  
13           *means the process by which the Secretary of the Air*  
14           *Force enters into phase two contracts and carries out*  
15           *launches under the National Security Space Launch*  
16           *program during fiscal years 2020 through 2024.*

17           (3) *The term “phase two contract” means a con-*  
18           *tract for launch services under the National Security*  
19           *Space Launch program during fiscal years 2020*  
20           *through 2024, as described in solicitation number*  
21           *FA8811–19–R–0002 of the Air Force.*

22   **SEC. 1602. PREPARATION TO IMPLEMENT PLAN FOR USE OF**  
23           **ALLIED LAUNCH VEHICLES.**

24           (a) *PREPARATION.—The Secretary of Defense, in co-*  
25           *ordination with the Director of National Intelligence, shall*

1 *take actions necessary to prepare to implement the plan de-*  
2 *veloped pursuant to section 1603 of the National Defense*  
3 *Authorization Act for Fiscal Year 2017 (Public Law 114–*  
4 *328; 130 Stat. 2584) regarding using allied launch vehicles*  
5 *to meet the requirements for achieving the policy relating*  
6 *to assured access to space set forth in section 2273 of title*  
7 *10, United States Code.*

8 (b) *ACTIONS REQUIRED.—In carrying out subsection*  
9 *(a), the Secretary shall—*

10 (1) *identify the satellites of the United States*  
11 *that would be appropriate to be launched on an allied*  
12 *launch vehicle;*

13 (2) *assess the relevant provisions of Federal law,*  
14 *regulations, and policies governing the launch of na-*  
15 *tional security satellites and determine whether any*  
16 *legislative, regulatory, or policy actions (including*  
17 *with respect to waivers) would be necessary to allow*  
18 *for the launch of a national security satellite on an*  
19 *allied launch vehicle; and*

20 (3) *address any certification requirements nec-*  
21 *essary for such use of allied launch vehicles and the*  
22 *estimated cost, schedule, and actions necessary to cer-*  
23 *tify allied launch vehicles for such use.*

24 (c) *SUBMISSION TO CONGRESS.—Not later than 90*  
25 *days after the date of the enactment of this Act, the Sec-*

1 *retary of Defense shall submit to the appropriate congres-*  
 2 *sional committees a report on preparing to implement the*  
 3 *plan described in subsection (a), including information re-*  
 4 *garding each action required by paragraphs (1), (2), and*  
 5 *(3) of subsection (b).*

6 *(d) APPROPRIATE CONGRESSIONAL COMMITTEES DE-*  
 7 *FINED.—In this section, the term “appropriate congres-*  
 8 *sional committees” means—*

- 9 *(1) the congressional defense committees; and*  
 10 *(2) the Permanent Select Committee on Intel-*  
 11 *ligence of the House of Representatives and the Select*  
 12 *Committee on Intelligence of the Senate.*

13 **SEC. 1603. ANNUAL DETERMINATION ON PLAN ON FULL IN-**  
 14 **TEGRATION AND EXPLOITATION OF OVER-**  
 15 **HEAD PERSISTENT INFRARED CAPABILITY.**

16 *Section 1618(c) of the National Defense Authorization*  
 17 *Act for Fiscal Year 2016 (Public Law 114–92; 10 U.S.C.*  
 18 *2431 note) is amended by striking “for a fiscal year” and*  
 19 *inserting “for each fiscal year preceding fiscal year 2029”.*

20 **SEC. 1604. SPACE-BASED ENVIRONMENTAL MONITORING**  
 21 **MISSION REQUIREMENTS.**

22 *(a) NRO.—*

- 23 *(1) PROCUREMENT.—The Director of the Na-*  
 24 *tional Reconnaissance Office shall procure a modern-*  
 25 *ized pathfinder program free-flyer satellite that—*

1           (A) addresses space-based environmental  
2           monitoring mission requirements;

3           (B) reduces the risk that the Department of  
4           Defense experiences a gap in meeting such re-  
5           quirements during the period beginning January  
6           1, 2023, and ending December 31, 2025; and

7           (C) is launched not later than January 1,  
8           2023.

9           (2) *PLAN.*—Not later than 60 days after the date  
10          of the enactment of this Act, the Director, in coordi-  
11          nation with the Secretary of the Air Force, shall sub-  
12          mit to the appropriate congressional committees a  
13          plan for the Director to procure and launch the sat-  
14          ellite under paragraph (1), including with respect  
15          to—

16               (A) the requirements for such satellite, in-  
17               cluding operational requirements;

18               (B) timelines for such procurement and  
19               launch;

20               (C) costs for such procurement and launch;  
21               and

22               (D) the launch plan.

23           (3) *PROCEDURES.*—The Director shall ensure  
24          that the satellite under paragraph (1) is procured

1       *using full and open competition through the use of*  
2       *competitive procedures.*

3       **(b) AIR FORCE.**—*The Secretary of the Air Force shall*  
4       *ensure that the electro-optical/infrared weather system sat-*  
5       *ellite—*

6               (1) *meets space-based environmental monitoring*  
7       *mission requirements;*

8               (2) *is procured using full and open competition*  
9       *through the use of competitive procedures; and*

10              (3) *is launched not later than September 30,*  
11       *2025.*

12       **(c) DEFINITIONS.**—*In this section:*

13              (1) *The term “appropriate congressional com-*  
14       *mittees” means—*

15                      (A) *the congressional defense committees;*

16                      *and*

17                      (B) *the Permanent Select Committee on In-*  
18       *telligence of the House of Representatives and the*  
19       *Select Committee on Intelligence of the Senate.*

20              (2) *The term “space-based environmental moni-*  
21       *toring mission requirements” means the national se-*  
22       *curity requirements for cloud characterization and*  
23       *theater weather imagery.*

1 **SEC. 1605. PROTOTYPE PROGRAM FOR MULTI-GLOBAL NAVI-**  
2 **GATION SATELLITE SYSTEM RECEIVER DE-**  
3 **VELOPMENT.**

4 (a) *PROTOTYPE MULTI-GNSS PROGRAM.*—The Sec-  
5 retary of Defense shall establish under the Space Develop-  
6 ment Agency a program to prototype an M-code based,  
7 multi-global navigation satellite system receiver that is ca-  
8 pable of receiving covered signals to increase the resilience  
9 and capability of military position, navigation, and timing  
10 equipment against threats to the Global Positioning System  
11 and to deter the likelihood of attack on the worldwide Global  
12 Positioning System by reducing the benefits of such an at-  
13 tack.

14 (b) *ELEMENTS.*—In carrying out the program under  
15 subsection (a), the Secretary shall—

16 (1) *with respect to each covered signal that could*  
17 *be received by the prototype receiver under such pro-*  
18 *gram, conduct an assessment of the relative benefits*  
19 *and risks of using that signal, including with respect*  
20 *to any existing or needed monitoring infrastructure*  
21 *that would alert users of the Department of Defense*  
22 *of potentially corrupted signal information, and the*  
23 *cyber risks and challenges of incorporating such sig-*  
24 *nals into a properly designed receiver;*

1           (2) *ensure that monitoring systems are able to*  
2 *include any monitoring network of the United States*  
3 *or allies of the United States;*

4           (3) *conduct an assessment of the benefits and*  
5 *risks, including with respect to the compatibility of*  
6 *non-United States global navigation satellite system*  
7 *signals with existing position, navigation, and timing*  
8 *equipment of the United States, and the extent to*  
9 *which the capability to receive such signals would im-*  
10 *act current receiver or antenna design; and*

11           (4) *conduct an assessment of the desirability of*  
12 *establishing such program in a manner that—*

13                   (A) *is a cooperative effort, coordinated with*  
14 *the Secretary of State, between the United States*  
15 *and the allies of the United States that may also*  
16 *have interest in funding a multi-global naviga-*  
17 *tion satellite system and M-code program; and*

18                   (B) *the Secretary of Defense, in coordina-*  
19 *tion with the Secretary of State, ensures that the*  
20 *United States has access to sufficient insight into*  
21 *trusted signals of allied systems to assure poten-*  
22 *tial reliance by the United States on such sig-*  
23 *nals.*

24           (c) *BRIEFING.—Not later than 90 days after the date*  
25 *of the enactment of this Act, the Director of the Space Devel-*

1 *opment Agency, in coordination with the Air Force GPS*  
2 *User Equipment Program office, shall provide to the con-*  
3 *gressional defense committees a briefing on a plan to carry*  
4 *out the program under subsection (a) that includes—*

5           (1) *the estimated cost, including total cost and*  
6           *out-year funding requirements;*

7           (2) *the schedule for such program;*

8           (3) *a plan for how the results of the program*  
9           *could be incorporated into future blocks of the Global*  
10          *Positioning System military user equipment pro-*  
11          *gram; and*

12          (4) *the recommendations and analysis contained*  
13          *in the study sponsored by the Department of Defense*  
14          *conducted by the MITRE Corporation on the risks,*  
15          *benefits, and approaches to adding multi-global navi-*  
16          *gation satellite system capabilities to military user*  
17          *equipment.*

18          (d) *REPORT.—Not later than 120 days after the date*  
19          *of the enactment of this Act, the Secretary of Defense shall*  
20          *submit to the congressional defense committees, the Com-*  
21          *mittee on Foreign Affairs of the House of Representatives,*  
22          *and the Committee on Foreign Relations of the Senate a*  
23          *report containing—*

24                (1) *an explanation of how the Secretary intends*  
25                *to comply with section 1609 of the John S. McCain*

1       *National Defense Authorization Act for Fiscal Year*  
2       *2019 (Public Law 115–232; 132 Stat. 2110);*

3             (2) *an outline of any potential cooperative efforts*  
4       *acting in accordance with the North Atlantic Treaty*  
5       *Organization, the European Union, or Japan that*  
6       *would support such compliance;*

7             (3) *an assessment of the potential to host, or in-*  
8       *corporate through software-defined payloads, Global*  
9       *Positioning System M-code functionality onto allied*  
10       *global navigation satellite system systems; and*

11            (4) *an assessment of new or enhanced moni-*  
12       *toring capabilities that would be needed to incor-*  
13       *porate global navigation satellite system functionality*  
14       *into weapon systems of the Department.*

15        (e) *LIMITATION.*—*Of the funds authorized to be appro-*  
16       *priated by this Act or otherwise made available for fiscal*  
17       *year 2020 for increment 2 of the acquisition of military*  
18       *Global Positioning System user equipment terminals, not*  
19       *more than 75 percent may be obligated or expended until*  
20       *the date on which the briefing has been provided under sub-*  
21       *section (c) and the report has been submitted under sub-*  
22       *section (d).*

23        (f) *DEFINITIONS.*—*In this section:*

24            (1) *The term “allied systems” means—*

1           (A) *the Galileo system of the European*  
2           *Union;*

3           (B) *the QZSS system of Japan; and*

4           (C) *upon designation by the Secretary of*  
5           *Defense, in consultation with the Director of Na-*  
6           *tional Intelligence—*

7                   (i) *the NAVIC system of India; and*

8                   (ii) *any similarly associated wide area*  
9                   *augmentation systems.*

10          (2) *The term “covered signals”—*

11               (A) *means global navigation satellite system*  
12               *signals from—*

13                   (i) *allied systems; and*

14                   (ii) *non-allied systems; and*

15               (B) *includes both trusted signals and open*  
16               *signals.*

17          (3) *The term “M-code” means, with respect to*  
18               *global navigation satellite system signals, military*  
19               *code that provides enhanced positioning, navigation,*  
20               *and timing capabilities and improved resistance to*  
21               *existing and emerging threats, such as jamming.*

22          (4) *The term “non-allied systems” means—*

23               (A) *the Russian GLONASS system; and*

24               (B) *the Chinese Beidou system.*

1           (5) *The term “open signals” means global navigation satellite system that do not include encryption or other internal methods to authenticate signal information.*

2  
3  
4  
5           (6) *The term “trusted signals” means global navigation satellite system signals that incorporate encryption or other internal methods to authenticate signal information.*

6  
7  
8  
9 **SEC. 1606. COMMERCIAL SPACE SITUATIONAL AWARENESS**

10                           **CAPABILITIES.**

11           (a) *FINDINGS.—Congress finds the following:*

12                   (1) *The Secretary of the Air Force is responsible for developing the hardware and software systems to provide space situational awareness data to the Commander of the United States Strategic Command to meet warfighter requirements.*

13  
14  
15  
16                   (2) *There have been significant delays and cost increases in the program of record that underpin space situational awareness.*

17  
18  
19  
20                   (3) *The Secretary terminated the Joint Space Operations Center Mission Center and decided to operationally accept the Joint Space Operations Center Mission Center Increment 2 despite the fact that only three of 12 planned capabilities in Joint Space*

1        *Operations Center Mission Center Increment 2 were*  
2        *accepted for use in operations.*

3            (4) *Multiple commercial vendors have the cur-*  
4        *rent capability to detect, maintain custody of, and*  
5        *provide analytical products that can address the*  
6        *warfighter space situational awareness requirements*  
7        *that were not filled in the Joint Space Operations*  
8        *Center Mission Center and that have been impacted*  
9        *by significant delays in the program of record.*

10        (b) *PROCUREMENT.*—*Not later than 90 days after the*  
11        *date of the enactment of this Act, the Director of the Space*  
12        *Development Agency shall procure commercial space situa-*  
13        *tional awareness services by awarding at least two contracts*  
14        *for such services.*

15        (c) *LIMITATION.*—*Of the funds authorized to be appro-*  
16        *priated by this Act or otherwise made available for fiscal*  
17        *year 2020 for the enterprise space battle management com-*  
18        *mand and control, not more than 75 percent may be obli-*  
19        *gated or expended until the date on which the Secretary*  
20        *of Defense, without delegation, certifies to the congressional*  
21        *committees that the Secretary has awarded the contracts*  
22        *under subsection (b).*

23        (d) *REPORT.*—*Not later than January 31, 2020, the*  
24        *Director of the Space Development Agency, in coordination*  
25        *with the Secretary of the Air Force, shall submit to the con-*

1 *gressional defense committees a report on using commercial*  
2 *space situational awareness services to fill the space situa-*  
3 *tional awareness requirements that were not filled in the*  
4 *Joint Space Operations Center Mission Center. The report*  
5 *shall include the following:*

6           (1) *A description of current domestic commercial*  
7 *capabilities to detect and track space objects in low*  
8 *earth orbit below the 10 centimeter threshold of legacy*  
9 *systems.*

10           (2) *A description of current domestic best-in-*  
11 *breed commercial capabilities that can meet such re-*  
12 *quirements.*

13           (3) *Estimates of the timelines, milestones, and*  
14 *funding requirements to procure a near-term solution*  
15 *to meet such requirements until the development pro-*  
16 *grams of the Air Force are projected to be operation-*  
17 *ally fielded.*

18           (e) *COMMERCIAL SPACE SITUATIONAL AWARENESS*  
19 *SERVICES DEFINED.—In this section, the term “commercial*  
20 *space situational awareness services” means commercial*  
21 *space situational awareness processing software and data*  
22 *to address warfighter requirements and fill gaps in current*  
23 *space situational capabilities of the Air Force.*

1 **SEC. 1607. INDEPENDENT STUDY ON PLAN FOR DETER-**  
2 **RENCE IN SPACE.**

3 (a) *FINDINGS.*—Congress finds the following:

4 (1) *Threats to space systems of the United States*  
5 *have increased and continue to grow.*

6 (2) *While the United States must invest in capa-*  
7 *bilities to defend such systems in the event of an at-*  
8 *tack in space, the United States must also identify*  
9 *and implement policies that will reduce the likelihood*  
10 *of such an attack.*

11 (3) *The United States is developing new capa-*  
12 *bilities for enhancing resilience of such systems.*

13 (4) *However, the proper balance between active*  
14 *defense, resilience, and the still lagging investment*  
15 *area of reconstitution to enhance deterrence remains*  
16 *unclear, as does the balance between classified and*  
17 *unclassified activities needed to create deterrence.*

18 (5) *Independent analysis and assessment is nec-*  
19 *essary to identify steps to increase deterrence in*  
20 *space.*

21 (b) *INDEPENDENT STUDY.*—

22 (1) *IN GENERAL.*—*Not later than 30 days after*  
23 *the date of the enactment of this Act, the Secretary of*  
24 *Defense shall seek to enter into a contract with a fed-*  
25 *erally funded research and development center or*

1        *other independent entity to conduct a study on deter-*  
2        *rence in space.*

3            (2) *MATTERS INCLUDED.—The study under*  
4        *paragraph (1) shall include, at a minimum, the fol-*  
5        *lowing:*

6            (A) *An assessment of the existing range of*  
7        *major studies and writings on space deterrence*  
8        *and a comprehensive comparative analysis of the*  
9        *conclusions of such studies and writings.*

10          (B) *An examination, using appropriate an-*  
11        *alytical tools, of the approaches proposed by such*  
12        *studies and writings with respect to creating*  
13        *conditions of deterrence suitable for use in the*  
14        *space domain, including, at a minimum, an as-*  
15        *essment of all aspects of deterrence in space, in-*  
16        *cluding varying classification, strategies to deny*  
17        *benefit or impose cost, and space mission assur-*  
18        *ance (including resilience, active defense, and re-*  
19        *constitution).*

20          (C) *A determination, made either by ex-*  
21        *tending such studies and writings or through*  
22        *new analysis, of a holistic and comprehensive*  
23        *theory of deterrence in space appropriate for use*  
24        *in defense planning.*

1           (D) *An evaluation of existing policies, pro-*  
2           *grams, and plans of the Department of Defense*  
3           *to provide an assessment of the likely effective-*  
4           *ness of those policies, programs, and plans to*  
5           *achieve effective space deterrence.*

6           (c) *ASSESSMENT BY DEFENSE POLICY BOARD.—Not*  
7           *later than 180 days after the date of the enactment of this*  
8           *Act, the Defense Policy Board shall submit to the Secretary*  
9           *of Defense an assessment of the study under subsection*  
10          *(b)(1), including, at a minimum—*

11           (1) *a determination of the soundness of the*  
12          *study;*

13           (2) *a description of any disagreements the Board*  
14          *has with the conclusions of such study, including rec-*  
15          *ommended changes or clarifications to such conclu-*  
16          *sions the Board determines appropriate; and*

17           (3) *changes to the policies, programs, and plans*  
18          *of the Department of Defense that the Board rec-*  
19          *ommends based on such study and the changes and*  
20          *clarifications described in paragraph (2).*

21          (d) *REPORT.—Not later than 270 days after the date*  
22          *of the enactment of this Act, the Secretary shall submit to*  
23          *the congressional defense committees, the Committee on For-*  
24          *ign Affairs of the House of Representatives, and the Com-*

1 *mittee on Foreign Relations of the Senate a report that con-*  
2 *tains the following:*

3           (1) *The study under subsection (b)(1), without*  
4 *change.*

5           (2) *The assessment under subsection (c), without*  
6 *change.*

7           (3) *Based on such study and assessment, a de-*  
8 *scription of any changes to the policies, programs,*  
9 *and plans of the Department of Defense that the Sec-*  
10 *retary recommends to enhance deterrence in space, in-*  
11 *cluding with respect to—*

12                   (A) *considerations and decision on reducing*  
13 *the opportunities and incentives for adversaries*  
14 *to attack space systems of the United States or*  
15 *allies of the United States;*

16                   (B) *new architectures, including pro-*  
17 *liferated systems, hosted payloads, non-tradi-*  
18 *tional orbits, and reconstitution among others;*

19                   (C) *appropriate uses of partnering with*  
20 *both commercial entities and allies to improve*  
21 *deterrence in space;*

22                   (D) *necessary capabilities to enhance the*  
23 *protection of space systems to achieve improved*  
24 *deterrence;*

1           (E) *bilateral, multilateral, and unilateral*  
2           *measures, including confidence-building meas-*  
3           *ures, that could be taken to reduce the risk of*  
4           *miscalculation that would lead to an attack in*  
5           *space;*

6           (F) *policies and capability requirements*  
7           *with regard to attribution of an attack in space;*

8           (G) *policies with regard to retaliatory*  
9           *measures either in space or on the ground;*

10          (H) *authorities with regard to decisions and*  
11          *actions to defend assets of the United States in*  
12          *space; and*

13          (I) *changes to current war plans, routine*  
14          *operations (including information sharing), and*  
15          *demonstration and test procedures that could en-*  
16          *hance the capability of the United States to sig-*  
17          *nal the intentions and capabilities of the United*  
18          *States in an effective manner.*

19          (e) *BRIEFING.*—*Not later than 270 days after the date*  
20          *of the enactment of this Act, the Secretary shall provide to*  
21          *the congressional defense committees, the Committee on For-*  
22          *ign Affairs of the House of Representatives, and the Com-*  
23          *mittee on Foreign Relations of the Senate a briefing on the*  
24          *study under subsection (b)(1) and the assessment under sub-*  
25          *section (c).*

1 **SEC. 1608. RESILIENT ENTERPRISE GROUND ARCHITEC-**  
2 **TURE.**

3 (a) *SENSE OF CONGRESS.*—*It is the sense of Congress*  
4 *that the Secretary of the Air Force, to advance the security*  
5 *of the space assets of the Department of Defense, should—*

6 (1) *expand on complimentary efforts within the*  
7 *Air Force that promote the adoption of a resilient en-*  
8 *terprise ground architecture that is responsive to new*  
9 *and changing threats and can rapidly integrate new*  
10 *capabilities to make the warfighting force of the*  
11 *United States more resilient in a contested*  
12 *battlespace; and*

13 (2) *prioritize the swift transition of space*  
14 *ground architecture to a common platform and lever-*  
15 *age commercial capabilities in concurrence with the*  
16 *2015 intent memorandum of the Commander of the*  
17 *Air Force Space Command.*

18 (b) *FUTURE ARCHITECTURE.*—*The Secretary of De-*  
19 *fense shall, to the extent practicable—*

20 (1) *develop future satellite ground architectures*  
21 *of the Department of Defense to be compatible with*  
22 *complimentary commercial systems that can support*  
23 *uplink and downlink capabilities with dual-band*  
24 *spacecraft; and*

25 (2) *emphasize that future ground architecture*  
26 *transition away from stove-piped systems to a service-*

1       *based platform that provides members of the Armed*  
2       *Forces with flexible and adaptable capabilities that—*

3               *(A) use, as applicable, commercially avail-*  
4               *able capabilities and technologies for increased*  
5               *resiliency and cost savings; and*

6               *(B) builds commercial opportunity and in-*  
7               *tegration across the range of resilient space sys-*  
8               *tems.*

9       ***Subtitle B—Defense Intelligence***  
10      ***and Intelligence-Related Activities***

11      ***SEC. 1611. MODIFICATIONS TO ISR INTEGRATION COUNCIL***  
12                      ***AND ANNUAL BRIEFING REQUIREMENTS.***

13       *(a) ISR INTEGRATION COUNCIL.—Subsection (a) of*  
14      *section 426 of title 10, United States Code, is amended to*  
15      *read as follows:*

16        “(a) *ISR INTEGRATION COUNCIL.—(1) The Under*  
17      *Secretary of Defense for Intelligence shall establish an Intel-*  
18      *ligence, Surveillance, and Reconnaissance Integration*  
19      *Council—*

20                “(A) *to assist the Secretary of Defense in car-*  
21                *rying out the responsibilities of the Secretary under*  
22                *section 105(a) of the National Security Act of 1947*  
23                *(50 U.S.C. 3038(a));*

24                “(B) *to assist the Under Secretary with respect*  
25                *to matters relating to—*

1           “(i) integration of intelligence and counter-  
2           intelligence capabilities and activities under sec-  
3           tion 137(b) of this title of the military depart-  
4           ments, intelligence agencies of the Department of  
5           Defense, and relevant combatant commands; and

6           “(ii) coordination of related developmental  
7           activities of such departments, agencies, and  
8           combatant commands; and

9           “(C) to otherwise provide a means to facilitate  
10          such integration and coordination.

11          “(2) The Council shall be composed of—

12                 “(A) the Under Secretary, who shall chair the  
13                 Council;

14                 “(B) the directors of the intelligence agencies of  
15                 the Department of Defense;

16                 “(C) the senior intelligence officers of the armed  
17                 forces and the regional and functional combatant  
18                 commands;

19                 “(D) the Director for Intelligence of the Joint  
20                 Chiefs of Staff; and

21                 “(E) the Director for Operations of the Joint  
22                 Chiefs of Staff.

23          “(3) The Under Secretary shall invite the participa-  
24          tion of the Director of National Intelligence (or a represent-  
25          ative of the Director) in the proceedings of the Council.

1       “(4) *The Under Secretary may designate additional*  
2 *participants to attend the proceedings of the Council, as*  
3 *the Under Secretary determines appropriate.*”.

4       **(b) ANNUAL BRIEFINGS.**—*Such section is further*  
5 *amended by striking subsections (b) and (c) and inserting*  
6 *the following new subsection (b):*

7       **“(b) ANNUAL BRIEFINGS ON THE INTELLIGENCE AND**  
8 **COUNTERINTELLIGENCE REQUIREMENTS OF THE COMBAT-**  
9 **ANT COMMANDS.**—*(1) The Chairman of the Joint Chiefs of*  
10 *Staff shall provide to the congressional defense committees*  
11 *and the congressional intelligence committees a briefing on*  
12 *the following:*

13               **“(A) The intelligence and counterintelligence re-**  
14 **quirements, by specific intelligence capability type, of**  
15 **each of the relevant combatant commands.**

16               **“(B) For the year preceding the year in which**  
17 **the briefing is provided, the fulfillment rate for each**  
18 **of the relevant combatant commands of the validated**  
19 **intelligence and counterintelligence requirements, by**  
20 **specific intelligence capability type, of such combat-**  
21 **ant command.**

22               **“(C) A risk analysis identifying the critical gaps**  
23 **and shortfalls in efforts to address operational and**  
24 **strategic requirements of the Department of Defense**  
25 **that would result from the failure to fulfill the vali-**

1       *dated intelligence and counterintelligence require-*  
2       *ments of the relevant combatant commands.*

3               “(D) *A mitigation plan to balance and offset the*  
4       *gaps and shortfalls identified under subparagraph*  
5       *(C), including with respect to spaceborne, airborne,*  
6       *ground, maritime, and cyber intelligence, surveil-*  
7       *lance, and reconnaissance capabilities.*

8               “(E) *For the year preceding the year in which*  
9       *the briefing is provided—*

10               “(i) *the number of intelligence and counter-*  
11       *intelligence requests of each commander of a rel-*  
12       *evant combatant command determined by the*  
13       *Joint Chiefs of Staff to be a validated require-*  
14       *ment, and the total of capacity of such requests*  
15       *provided to each such commander;*

16               “(ii) *with respect to such validated require-*  
17       *ments—*

18               “(I) *the quantity of intelligence and*  
19       *counterintelligence capabilities or activities,*  
20       *by specific intelligence capability type, that*  
21       *the Joint Chiefs of Staff requested each*  
22       *military department to provide; and*

23               “(II) *the total of capacity of such re-*  
24       *quests so provided by each such military de-*  
25       *partment; and*

1           “(iii) a qualitative assessment of the align-  
2           ment of intelligence and counterintelligence ca-  
3           pabilities and activities with the program of  
4           analysis for each combat support agency and in-  
5           telligence center of a military service that is part  
6           of—

7                   “(I) the Defense Intelligence Enter-  
8                   prise; and

9                   “(II) the intelligence community.

10          “(2) The Under Secretary of Defense for Intelligence  
11          shall provide to the congressional defense committees and  
12          the congressional intelligence committees a briefing on  
13          short-, mid-, and long-term strategies to address the vali-  
14          dated intelligence and counterintelligence requirements of  
15          the relevant combatant commands, including with respect  
16          to spaceborne, airborne, ground, maritime, and cyber intel-  
17          ligence, surveillance, and reconnaissance capabilities.

18          “(3) The briefings required by paragraphs (1) and (2)  
19          shall be provided at the same time that the President’s budg-  
20          et is submitted pursuant to section 1105(a) of title 31 for  
21          each of fiscal years 2021 through 2025.

22          “(4) In this subsection:

23                   “(A) The term ‘congressional intelligence com-  
24                   mittees’ has the meaning given that term in section

1       3 of the National Security Act of 1947 (50 U.S.C.  
2       3003).

3               “(B) The term ‘Defense Intelligence Enterprise’  
4       means the organizations, infrastructure, and meas-  
5       ures, including policies, processes, procedures, and  
6       products, of the intelligence, counterintelligence, and  
7       security components of each of the following:

8                       “(i) The Department of Defense.

9                       “(ii) The Joint Staff.

10                      “(iii) The combatant commands.

11                      “(iv) The military departments.

12                      “(v) Other elements of the Department of  
13       Defense that perform national intelligence, de-  
14       fense intelligence, intelligence-related, counter-  
15       intelligence, or security functions.

16               “(C) The term ‘fulfillment rate’ means the per-  
17       centage of combatant command intelligence and coun-  
18       terintelligence requirements satisfied by available, ac-  
19       quired, or realigned intelligence and counterintel-  
20       ligence capabilities or activities.

21               “(D) The term ‘intelligence community’ has the  
22       meaning given that term in section 3 of the National  
23       Security Act of 1947 (50 U.S.C. 3003).”.

1 **SEC. 1612. SURVEY AND REPORT ON ALIGNMENT OF INTEL-**  
2 **LIGENCE COLLECTIONS CAPABILITIES AND**  
3 **ACTIVITIES WITH DEPARTMENT OF DEFENSE**  
4 **REQUIREMENTS.**

5 (a) *SURVEY AND REVIEW.*—

6 (1) *IN GENERAL.*—Not later than 120 days after  
7 the date of the enactment of this Act, the Under Sec-  
8 retary of Defense for Intelligence, in coordination  
9 with the Chairman of the Joint Chiefs of Staff and  
10 the Director of National Intelligence, shall—

11 (A) review the organization, posture, cur-  
12 rent and planned investments, and processes of  
13 the intelligence collections capabilities and ac-  
14 tivities, for the purpose of assessing the suffi-  
15 ciency, integration, and interoperability of such  
16 capabilities and activities to support the current  
17 and future requirements of the Department of  
18 Defense; and

19 (B) conduct a survey of each geographic  
20 and functional combatant command, with re-  
21 spect to intelligence collections capabilities and  
22 activities, to assess—

23 (i) the current state of the support of  
24 such capabilities and activities to military  
25 operations;

1           (ii) whether the posture of such capa-  
2           bilities and activities is sufficient to address  
3           the requirements of the Department of De-  
4           fense;

5           (iii) the extent to which such capabili-  
6           ties and activities address gaps and defi-  
7           ciencies with respect to the operational re-  
8           quirements of the Global Campaign Plans,  
9           as identified in the most recent readiness re-  
10          views conducted by the Joint Staff; and

11          (iv) whether current and planned in-  
12          vestments in such capabilities and activities  
13          are sufficient to address near-, mid-, and  
14          long-term spaceborne, airborne, terrestrial,  
15          and human collection capability require-  
16          ments.

17          (2) *ELEMENTS.*—The survey and review under  
18          paragraph (1) shall include the following:

19               (A) A comprehensive assessment of intel-  
20               ligence collections capabilities and activities, and  
21               whether such capabilities and activities—

22                       (i) are appropriately postured and suf-  
23                       ficiently resourced to meet current and fu-  
24                       ture requirements of the Department of De-  
25                       fense;

1           (ii) are appropriately balanced to ad-  
2           dress operational and strategic defense intel-  
3           ligence requirements; and

4           (iii) are sufficiently integrated and  
5           interoperable between activities of the Mili-  
6           tary Intelligence Program and the National  
7           Intelligence Program to respond to emerging  
8           requirements of the Department of Defense.

9           (B) With respect to each geographic and  
10          functional combatant command—

11           (i) information on the gaps and defi-  
12           ciencies, by specific intelligence capability  
13           type, described in paragraph (1)(B)(iii);

14           (ii) a review of the alignment of such  
15           gaps and deficiencies with the intelligence,  
16           surveillance, and reconnaissance submis-  
17           sions to the integrated priorities list for the  
18           period beginning with the completion of the  
19           most recent readiness reviews conducted by  
20           the Joint Staff and ending on the date of  
21           the commencement of the survey and review  
22           under subsection (a); and

23           (iii) detailed information on the allo-  
24           cation and realignment of intelligence col-

1                    *lections capabilities and activities to ad-*  
2                    *dress—*

3                    *(I) such gaps and deficiencies;*  
4                    *and*  
5                    *(II) such intelligence, surveillance,*  
6                    *and reconnaissance submissions.*

7                    *(b) REPORT.—*

8                    *(1) SUBMISSION.—Not later than 270 days after*  
9                    *the date of the enactment of this Act, the Under Sec-*  
10                    *retary of Defense for Intelligence shall submit to the*  
11                    *appropriate congressional committees a report on the*  
12                    *findings of the Under Secretary with respect to the*  
13                    *survey and review under subsection (a)(1).*

14                    *(2) CONTENT.—The report under paragraph (1)*  
15                    *shall include—*

16                    *(A) an evaluation of—*  
17                    *(i) the organization, posture, current*  
18                    *and planned investments, and processes of*  
19                    *the intelligence collections capabilities and*  
20                    *activities, including the extent to which*  
21                    *such capabilities and activities enable the*  
22                    *geographic and functional combatant com-*  
23                    *mands to meet the operational and strategic*  
24                    *requirements of the Department of Defense;*

1           (ii) the use or planned use by each geo-  
2 graphic and functional combatant com-  
3 mand of intelligence collections capabilities  
4 and activities available to such command to  
5 address operational and strategic require-  
6 ments of the Department of Defense;

7           (iii) the gaps and deficiencies described  
8 in subsection (a)(1)(B)(iii), if any, that  
9 prohibit each geographic and functional  
10 combatant command from the most effective  
11 use of the intelligence collections capabilities  
12 and activities to address priority require-  
13 ments of the Department of Defense;

14           (iv) the accepted risk by the Secretary  
15 of Defense from the prioritization of certain  
16 Department of Defense requirements with  
17 respect to the allocation of intelligence col-  
18 lections capabilities and activities; and

19           (v) the alignment and responsiveness of  
20 intelligence collections capabilities and ac-  
21 tivities with respect to the planning require-  
22 ments for the Program of Analysis of each  
23 combat support agency that is part of—

24                   (I) the Defense Intelligence Enter-  
25                   prise; and

1 (II) the intelligence community;

2 and

3 (B) recommendations, if any, to improve  
4 the sufficiency, responsiveness, and interoper-  
5 ability of intelligence collections capabilities and  
6 activities to fulfill the operational and strategic  
7 requirements of the Department of Defense.

8 (3) FORM.—The report under paragraph (1)  
9 shall be submitted in unclassified form without any  
10 designation relating to dissemination control, but  
11 may contain a classified annex.

12 (c) DEFINITIONS.—In this section:

13 (1) The term “appropriate congressional com-  
14 mittees” means—

15 (A) the congressional defense committees;

16 and

17 (B) the congressional intelligence commit-  
18 tees.

19 (2) The term “combat support agency” has the  
20 meaning given that term in section 193(f) of title 10,  
21 United States Code.

22 (3) The term “Defense Intelligence Enterprise”  
23 has the meaning given that term in section 1633(c)(2)  
24 of the National Defense Authorization Act for Fiscal  
25 Year 2017 (Public Law 114–328; 130 Stat. 2600).

1           (4) *The term “intelligence collections capabilities*  
2 *and activities” means the totality of intelligence col-*  
3 *lections systems and processes which enable the*  
4 *tasking, processing, exploitation, and dissemination*  
5 *capabilities, capacity, and activities of the Defense*  
6 *Intelligence Enterprise.*

7           (5) *The term “intelligence community” has the*  
8 *meaning given that term in section 3 of the National*  
9 *Security Act of 1947 (50 U.S.C. 3003).*

10          (6) *The term “congressional intelligence commit-*  
11 *tees” has the meaning given that term in section 3 of*  
12 *the National Security Act of 1947 (50 U.S.C. 3003).*

13 **SEC. 1613. MODIFICATION OF ANNUAL AUTHORIZATION OF**  
14 **APPROPRIATIONS FOR NATIONAL FLAGSHIP**  
15 **LANGUAGE INITIATIVE.**

16          *Section 811(a) of the David L. Boren National Secu-*  
17 *riety Education Act of 1991 (50 U.S.C. 1911(a)) is amend-*  
18 *ed—*

19           (1) *by striking “fiscal year 2003” and inserting*  
20 *“fiscal year 2020”; and*

21           (2) *by striking “\$10,000,000” and inserting*  
22 *“\$16,000,000”.*

1       ***Subtitle C—Cyberspace-Related***  
2                                   ***Matters***

3       ***SEC. 1621. NOTIFICATION REQUIREMENTS FOR SENSITIVE***  
4                                   ***MILITARY CYBER OPERATIONS.***

5       *Section 395 of title 10, United States Code, is amend-*  
6 *ed—*

7                   (1) *in subsection (b)(3), by inserting “, signed by*  
8 *the Secretary,” after “written notification”; and*

9                   (2) *in subsection (c)—*

10                         (A) *in paragraph (1)—*

11                                 (i) *in subparagraph (A), by striking*

12   *“and” after the semicolon at the end;*

13                                 (ii) *by redesignating subparagraph (B)*

14   *as subparagraph (C); and*

15                                 (iii) *by inserting after subparagraph*

16   (A) *the following new subparagraph:*

17                                 “(B) *is determined to—*

18   “(i) *have a medium or high collateral effects*  
19 *estimate;*

20   “(ii) *have a medium or high intelligence*  
21 *gain or loss;*

22   “(iii) *have a medium or high probability of*  
23 *political retaliation, as determined by the polit-*  
24 *ical military assessment contained within the as-*  
25 *sociated concept of operations;*

1           “(iv) have a medium or high probability of  
2           detection when detection is not intended; or

3           “(v) result in medium or high collateral ef-  
4           fects; and”;

5           (B) in paragraph (2)(B), by striking “out-  
6           side the Department of Defense Information Net-  
7           works to defeat an ongoing or imminent threat”.

8   **SEC. 1622. QUARTERLY CYBER OPERATIONS BRIEFINGS.**

9           Subsection (b) of section 484 of title 10, United States  
10          Code, is amended—

11           (1) by redesignating paragraph (4) as para-  
12          graph (5); and

13           (2) by inserting after paragraph (3) the fol-  
14          lowing new paragraph:

15           “(4) An overview of the readiness of the Cyber  
16          Mission Force to perform assigned missions.”.

17   **SEC. 1623. CYBER POSTURE REVIEW.**

18           Section 1644 of the National Defense Authorization  
19          Act for Fiscal Year 2018 (Public Law 115–91) is amend-  
20          ed—

21           (1) in subsection (a), by inserting “, not later  
22          than December 31, 2022, and quadrennially there-  
23          after,” before “conduct”;

24           (2) in subsection (b), by striking “the review”  
25          and inserting “each review”;

1           (3) in subsection (c)—

2                 (A) in the matter preceding paragraph (1),  
3           by striking “The review” and inserting “Each  
4           review”;

5                 (B) by redesignating paragraph (9) as  
6           paragraph (10); and

7                 (C) by inserting after paragraph (8) the fol-  
8           lowing new paragraph:

9                 “(9) An assessment of the potential costs, bene-  
10           fits, and value, if any, of establishing a cyber force  
11           as a separate uniformed service.”;

12           (4) in subsection (d)—

13                 (A) in paragraph (1), by striking “the  
14           cyber” and inserting “each cyber”;

15                 (B) in paragraph (2), by striking “The re-  
16           port” and inserting “Each report”; and

17                 (C) by striking paragraph (3); and

18           (5) in subsection (e), by striking “period begin-  
19           ning on the date that is five years after the date of  
20           the enactment of this Act and ending on the date that  
21           is 10 years after such date of enactment” and insert-  
22           ing “each eight-year period that begins from the date  
23           of each review conducted under subsection (a)”.

1 **SEC. 1624. TIER 1 EXERCISE OF SUPPORT TO CIVIL AU-**  
2 **THORITIES FOR A CYBER INCIDENT.**

3 *Section 1648 of the John S. McCain National Defense*  
4 *Authorization Act for Fiscal Year 2019 is amended—*

5 *(1) in subsection (a), by striking “The” and in-*  
6 *serting “Not later than February 1, 2020, the”; and*

7 *(2) by adding at the end the following new sub-*  
8 *section:*

9 *“(c) LIMITATION.—Of the funds authorized to be ap-*  
10 *propriated by this Act or otherwise made available for fiscal*  
11 *year 2020 for the Department of Defense for the White*  
12 *House Communications Agency, not more than 90 percent*  
13 *of such funds may be obligated or expended until the initi-*  
14 *ation of the tier 1 exercise required under subsection (a).”.*

15 **SEC. 1625. EVALUATION OF CYBER VULNERABILITIES OF**  
16 **MAJOR WEAPON SYSTEMS OF THE DEPART-**  
17 **MENT OF DEFENSE.**

18 *Section 1647 of the National Defense Authorization*  
19 *Act for Fiscal Year 2016 is amended by adding at the end*  
20 *the following new subsections:*

21 *“(f) WRITTEN NOTIFICATION.—If the Secretary deter-*  
22 *mines that the Department will not complete an evaluation*  
23 *of the cyber vulnerabilities of each major weapon system*  
24 *of the Department by the date specified in subsection (a)(1),*  
25 *the Secretary shall provide to the congressional defense com-*  
26 *mittee written notification relating to each such incomplete*

1 *evaluation. Such a written notification shall include the fol-*  
2 *lowing:*

3           “(1) *An identification of each major weapon sys-*  
4 *tem requiring such an evaluation and the anticipated*  
5 *date of completion.*

6           “(2) *A justification for the inability to complete*  
7 *such an evaluation by the date specified in subsection*  
8 *(a)(1).*

9           “(g) *REPORT.—The Secretary, acting through the As-*  
10 *sistant Secretary of Defense for Acquisition and*  
11 *Sustainment, shall provide a report to the congressional de-*  
12 *fense committees upon completion of the requirement for an*  
13 *evaluation of the cyber vulnerabilities of each major weapon*  
14 *system of the Department under this section. Such report*  
15 *shall include the following:*

16           “(1) *An identification of cyber vulnerabilities of*  
17 *each major weapon system requiring mitigation.*

18           “(2) *An identification of current and planned ef-*  
19 *forts to address the cyber vulnerabilities of each major*  
20 *weapon system requiring mitigation, including efforts*  
21 *across the doctrine, organization, training, materiel,*  
22 *leadership and education, personnel, and facilities of*  
23 *the Department.*

24           “(3) *A description of joint and common cyber*  
25 *vulnerability mitigation solutions and efforts, includ-*

1        *ing solutions and efforts across the doctrine, organiza-*  
2        *tion, training, materiel, leadership and education,*  
3        *personnel, and facilities of the Department.*

4            *“(4) A description of lessons learned and best*  
5        *practices regarding evaluations of the cyber*  
6        *vulnerabilities and cyber vulnerability mitigation ef-*  
7        *forts relating to major weapon systems.*

8            *“(5) A description of efforts to share lessons*  
9        *learned and best practices regarding evaluations of*  
10       *the cyber vulnerabilities and cyber vulnerability miti-*  
11       *gation efforts of major weapon systems across the De-*  
12       *partment.*

13           *“(6) An identification of measures taken to insti-*  
14       *tutionalize evaluations of cyber vulnerabilities of*  
15       *major weapon systems.*

16           *“(7) Information relating to guidance, processes,*  
17       *procedures, or other activities established to mitigate*  
18       *or address the likelihood of cyber vulnerabilities of*  
19       *major weapon systems by incorporation of lessons*  
20       *learned in the research, development, test, evaluation,*  
21       *and acquisition cycle, including promotion of cyber*  
22       *education of the acquisition workforce.*

23           *“(8) Any other matters the Secretary determines*  
24       *relevant.”.*

1 **SEC. 1626. EXTENSION OF THE CYBERSPACE SOLARIUM**  
2 **COMMISSION.**

3 *Paragraph (1) of section 1652(k) of the John S.*  
4 *McCain National Defense Authorization Act for Fiscal Year*  
5 *2019 (Public Law 115–232) is amended by striking “2019”*  
6 *and inserting “2020”.*

7 **SEC. 1627. AUTHORITY TO USE OPERATION AND MAINTENANCE FUNDS FOR CYBER OPERATIONS-PECULIAR CAPABILITY DEVELOPMENT PROJECTS.**

11 *(a) IN GENERAL.—The Secretary of Defense and each*  
12 *Secretary concerned may obligate and expend not more*  
13 *than \$3,000,000 of amounts authorized to be appropriated*  
14 *for operation and maintenance in each of fiscal years 2020*  
15 *through 2022 to carry out cyber operations-peculiar capa-*  
16 *bility development projects.*

17 *(b) CERTIFICATION.—For each development project*  
18 *initiated under the authority provided for in subsection (a),*  
19 *the Commander of U.S. Cyber Command shall certify to*  
20 *the congressional defense committees that each project is de-*  
21 *termined to be cyber operations-peculiar.*

22 *(c) NOTIFICATION.—Not later than 15 days after exer-*  
23 *cising the authority provided for in subsection (a), the Sec-*  
24 *retary of Defense shall notify the congressional defense com-*  
25 *mittees of such exercise.*

1           (d) *REPORT.*—Not later than December 31 of each year  
2 through 2022, the Secretary of Defense shall submit to the  
3 congressional defense committees a report on expenditures  
4 made pursuant to the authority provided for in subsection  
5 (a). Each such report shall include a full description and  
6 evaluation of each of the cyber operations-peculiar capa-  
7 bility development projects that is the subject of each such  
8 expenditure, definitions and standards for cyber operations-  
9 peculiar requirements, transition plans, and any other  
10 matters the Secretary determines relevant.

11 **SEC. 1628. NOTIFICATION OF DELEGATION OF AUTHORI-**  
12                                   **TIES TO THE SECRETARY OF DEFENSE FOR**  
13                                   **MILITARY OPERATIONS IN CYBERSPACE.**

14           (a) *IN GENERAL.*—The Secretary of Defense shall pro-  
15 vide written notification to the Committee on Armed Serv-  
16 ices of the House of Representatives and the Committee on  
17 Armed Services of the Senate of authorities delegated to the  
18 Secretary by the President for military operations in cyber-  
19 space that are otherwise held by the National Command Au-  
20 thority, not later than 15 days after any such delegation.  
21 Such notification shall include the following:

22                   (1) A description of the authorities delegated to  
23                   the Secretary.

1           (2) *A description of relevant documents, includ-*  
2 *ing execute orders, issued by the Secretary in accord-*  
3 *ance with such authorities.*

4           (3) *A list of countries in which such authorities*  
5 *may be utilized.*

6           (4) *A description of authorized activities to be*  
7 *conducted or planned to be conducted pursuant to*  
8 *such authorities.*

9           (5) *Defined military objectives relating to such*  
10 *authorities.*

11       **(b) PROCEDURES.—**

12           (1) *IN GENERAL.—The Secretary of Defense shall*  
13 *establish and submit to the Committee on Armed*  
14 *Services of the House of Representatives and the Com-*  
15 *mittee on Armed Services of the Senate procedures for*  
16 *complying with the requirements of subsection (a),*  
17 *consistent with the national security of the United*  
18 *States and the protection of operational integrity. The*  
19 *Secretary shall promptly notify the Committee on*  
20 *Armed Services of the House of Representatives and*  
21 *the Committee on Armed Services of the Senate in*  
22 *writing of any changes to such procedures at least 14*  
23 *days prior to the adoption of any such changes.*

24           (2) *SUFFICIENCY.—The Committee on Armed*  
25 *Services of the House of Representatives and the Com-*

1        *mittee on Armed Services of the Senate shall ensure*  
2        *that committee procedures designed to protect from*  
3        *unauthorized disclosure classified information relat-*  
4        *ing to national security of the United States are suffi-*  
5        *cient to protect the information that is submitted to*  
6        *the committees pursuant to this section.*

7                (3) *NOTIFICATION IN EVENT OF UNAUTHORIZED*  
8        *DISCLOSURE.—In the event of an unauthorized disclo-*  
9        *sure of authorities covered by this section, the Sec-*  
10        *retary of Defense shall ensure, to the maximum extent*  
11        *practicable, that the Committee on Armed Services of*  
12        *the House of Representatives and the Committee on*  
13        *Armed Services of the Senate are notified imme-*  
14        *diately. Notification under this paragraph may be*  
15        *verbal or written, but in the event of a verbal notifi-*  
16        *cation, a written notification signed by the Secretary*  
17        *shall be provided by not later than 48 hours after the*  
18        *provision of such verbal notification.*

19        **SEC. 1629. LIMITATION OF FUNDING FOR CONSOLIDATED**  
20                **AFLOAT NETWORKS AND ENTERPRISE SERV-**  
21                **ICES.**

22        *Of the funds authorized to be appropriated by this Act*  
23        *or otherwise made available for fiscal year 2020 for the*  
24        *Consolidated Afloat Networks and Enterprise Services, not*  
25        *more than 85 percent of such funds may be obligated or*

1 *expended until the Secretary of Defense, in coordination*  
2 *with the Chief Information Officer of the Department of De-*  
3 *fense, certifies to the congressional defense committees that*  
4 *the recommendations in the Audit of Consolidated Afloat*  
5 *Networks and Enterprise Services Security Safeguards*  
6 *(DODIG-2019-072) have been implemented.*

7 **SEC. 1630. ANNUAL MILITARY CYBERSPACE OPERATIONS**  
8 **REPORT.**

9 (a) *IN GENERAL.*—*Not later than March 1 of each*  
10 *year, the Secretary of Defense shall provide to the congres-*  
11 *sional defense committees a written report detailing all*  
12 *military cyberspace operations conducted in the previous*  
13 *calendar year. For each such operation each such report*  
14 *shall include the following:*

15 (1) *An identification of the objective and pur-*  
16 *pose.*

17 (2) *Impacted information technology infrastruc-*  
18 *ture, by location.*

19 (3) *A description of tools and capabilities uti-*  
20 *lized.*

21 (4) *An identification of the Cyber Mission Force*  
22 *team, or other Department of Defense entity or unit,*  
23 *that conducted such operation, and supporting teams,*  
24 *entities, or units.*

1           (5) *A description of the infrastructure and plat-*  
2           *forms on which such operation occurred.*

3           (6) *A description of relevant legal, operational,*  
4           *and funding authorities, including Execute Orders*  
5           *and Deployment Orders.*

6           (7) *Information relating to the total amount of*  
7           *funding required and associated program elements.*

8           (8) *Any other matters the Secretary determines*  
9           *relevant.*

10          (b) *CLASSIFICATION.—The Secretary of Defense shall*  
11          *provide each report required under subsection (a) at a clas-*  
12          *sification level the Secretary determines appropriate.*

13          (c) *LIMITATION.—This section does not apply to cyber-*  
14          *enabled military information support operations.*

15          (d) *DEFINITION.—In this section, the term “military*  
16          *cyberspace operations” means defensive and offensive—*

17                 (1) *cyber effects enabling operations, activities,*  
18                 *and missions; and*

19                 (2) *cyber effects operations, activities, and mis-*  
20                 *sions.*

21          **SEC. 1631. REPORT ON SYNCHRONIZATION OF EFFORTS RE-**  
22                                 **LATING TO CYBERSECURITY IN THE DEFENSE**  
23                                 **INDUSTRIAL BASE.**

24          (a) *REPORT.—Not later than May 1, 2020, the Sec-*  
25          *retary of Defense shall submit to the congressional defense*

1 *committees a report on efforts, and roles and responsibil-*  
2 *ities, relating to cybersecurity in the Defense Industrial*  
3 *Base.*

4 *(b) ELEMENTS.—The report under subsection (a) shall*  
5 *include the following:*

6 *(1) Definitions for “Controlled Unclassified In-*  
7 *formation” (CUI) and “For Official Use Only”*  
8 *(FOUO), as well as policies regarding protecting in-*  
9 *formation designated as such.*

10 *(2) A comprehensive list of Department of De-*  
11 *fense programs to assist the Defense Industrial Base*  
12 *with cybersecurity compliance requirements of the De-*  
13 *partment.*

14 *(3) An evaluation of the resources and utiliza-*  
15 *tion of Department programs to assist the Defense In-*  
16 *dustrial Base in complying with cybersecurity com-*  
17 *pliance requirements referred to in paragraph (2).*

18 *(4) Optimal levels of resourcing required for ac-*  
19 *tivities, programs, and other Department efforts to as-*  
20 *sess and monitor compliance by the Defense Indus-*  
21 *trial Base with such cybersecurity compliance re-*  
22 *quirements.*

23 *(5) Roles and responsibilities of the Under Sec-*  
24 *retary of Defense for Acquisition and Sustainment,*  
25 *the Chief Information Officer, the Chief Management*

1        *Officer, the Director of the Protecting Critical Tech-*  
2        *nologies Task Force, and the Secretaries of the mili-*  
3        *tary services relating to the following:*

4                *(A) Establishing and ensuring compliance*  
5                *with cybersecurity standards, regulations, and*  
6                *policies.*

7                *(B) Deconflicting existing cybersecurity*  
8                *standards, regulations, and policies.*

9                *(C) Coordinating with and providing as-*  
10               *sistance to the Defense Industrial Base for cyber-*  
11               *security matters, particularly such relates to the*  
12               *issues described in paragraphs (2), (3), and (8).*

13               *(6) Efforts to enhance the Department's visibility*  
14               *into its entire supply chain without violating privity.*

15               *(7) An evaluation of methodologies to tier cyber-*  
16               *security requirements for the Defense Industrial Base*  
17               *relative to risk.*

18               *(8) Efforts to support and enhance threat infor-*  
19               *mation sharing between the Department and the De-*  
20               *fense Industrial Base.*

21               *(9) An evaluation of a single Sector Coordi-*  
22               *nating Council for the Defense Industrial Base.*

23               *(10) An explanation of the Department's Pro-*  
24               *tecting Critical Technologies Task Force efforts, and*

1        *how its work will be incorporated into existing De-*  
2        *partment efforts.*

3            (11) *Any other information the Secretary of De-*  
4        *fense determines relevant.*

5        (c) *DEFINITION.—In this section, the term “Defense*  
6        *Industrial Base” includes traditional and non-traditional*  
7        *defense contractors and academic institutions with contrac-*  
8        *tual relationships with the Department of Defense related*  
9        *to activities involving information or technology requiring*  
10       *cybersecurity compliance.*

11       **SEC. 1632. BRIEFINGS ON THE STATUS OF THE NATIONAL**  
12                            **SECURITY AGENCY AND UNITED STATES**  
13                            **CYBER COMMAND PARTNERSHIP.**

14        (a) *IN GENERAL.—Not later than 90 days after the*  
15        *date of the enactment of this Act and quarterly thereafter,*  
16        *the Secretary of Defense and the Director of National Intel-*  
17        *ligence shall provide to the congressional defense committees*  
18        *and the Permanent Select Committee on Intelligence of the*  
19        *House of Representatives and the Select Committee on Intel-*  
20        *ligence of the Senate briefings on the nature of the National*  
21        *Security Agency and United States Cyber Command’s cur-*  
22        *rent and future partnership. Briefings under this section*  
23        *shall terminate on January 1, 2022.*

24        (b) *ELEMENTS.—Each briefing under this section shall*  
25        *include the following:*

1           (1) *Status updates on the current and future Na-*  
2           *tional Security Agency-United States Cyber Com-*  
3           *mand partnership efforts.*

4           (2) *Executed documents, written memoranda of*  
5           *agreements or understandings, and policies issued*  
6           *governing such current and future partnership.*

7           (3) *Projected long-term efforts.*

8           (4) *Updates related to the assessment required*  
9           *under section 1642 of the National Defense Authoriza-*  
10          *tion Act for Fiscal Year 2017 (relating to limitation*  
11          *on termination of dual-hat arrangement for Com-*  
12          *mander of the United States Cyber Command; Public*  
13          *Law 114–328).*

## 14           ***Subtitle D—Nuclear Forces***

### 15   ***SEC. 1641. IMPROVEMENT TO ANNUAL REPORT ON THE*** 16           ***MODERNIZATION OF THE NUCLEAR WEAPONS*** 17           ***ENTERPRISE.***

18          (a) *EXTENSION.*—*Section 1043(a) of the National De-*  
19          *fense Authorization Act for Fiscal Year 2012 (Public Law*  
20          *112–81; 125 Stat. 1576), as most recently amended by sec-*  
21          *tion 1670 of the John S. McCain National Defense Author-*  
22          *ization Act for Fiscal Year 2019 (Public Law 115–232; 132*  
23          *Stat. 2157), is further amended in paragraph (1) by strik-*  
24          *ing “2023” and inserting “2024”.*

1           **(b) ACQUISITION COSTS.**—Paragraph (2) of such sec-  
2 *tion is amended—*

3                   (1) *by redesignating subparagraph (G) as sub-*  
4 *paragraph (I); and*

5                   (2) *by inserting after subparagraph (F) the fol-*  
6 *lowing new subparagraphs:*

7                           “(G) *For the 10-year period following the*  
8 *date of the report, an estimate of the relative per-*  
9 *centage of acquisition costs of the military de-*  
10 *partments, and of the entire Department of De-*  
11 *fense, represented by the costs to the Department*  
12 *of Defense to modernize and recapitalize the nu-*  
13 *clear weapons enterprise.*

14                           “(H) *A plan covering the 25-year period*  
15 *following the date of the report that—*

16                                   “(i) *covers the research and develop-*  
17 *ment and production relating to nuclear*  
18 *weapons that are being modernized or sus-*  
19 *tained, including with respect to—*

20   “(I) *associated delivery systems or*  
21 *platforms that carry nuclear weapons;*

22   “(II) *nuclear command and con-*  
23 *trol systems; and*

24   “(III) *facilities, infrastructure,*  
25 *and critical skills; and*

1           “(ii) includes estimated timelines for  
2           such research and development and produc-  
3           tion, and the estimated acquisition and life  
4           cycle costs, including estimated cost ranges  
5           if necessary, to modernize or recapitalize  
6           each system.”.

7           (c) *TRANSFER OF PROVISION.*—

8           (1) *CODIFICATION.*—Such section 1043, as  
9           amended by subsections (a) and (b), is—

10           (A) transferred to chapter 24 of title 10,

11           *United States Code;*

12           (B) inserted after section 492;

13           (C) redesignated as section 492a; and

14           (D) amended—

15           (i) in the enumerator, by striking  
16           “SEC.” and inserting “§”; and

17           (ii) in the section heading—

18           (I) by striking the period at the  
19           end; and

20           (II) by conforming the typeface  
21           and typestyle, including capitalization,  
22           to the typeface and typestyle as used in  
23           the section heading of section 491 of  
24           such title.

1           (2) *CLERICAL AMENDMENT.*—*The table of sec-*  
2           *tions at the beginning of chapter 24 of title 10,*  
3           *United States Code, is amended by inserting after the*  
4           *item relating to section 492 the following new item:*

          “492a. *Annual report on the plan for the nuclear weapons stockpile, nuclear weap-*  
          *ons complex, nuclear weapons delivery systems, and nuclear*  
          *weapons command and control system.”.*

5   **SEC. 1642. BRIEFINGS ON MEETINGS HELD BY THE NU-**  
6                                   **CLEAR WEAPONS COUNCIL.**

7           *Section 179 of title 10, United States Code, is amended*  
8           *by adding at the end the following new subsection:*

9           “(g) *SEMIANNUAL BRIEFINGS.*—*Not later than 30*  
10          *days after the date of the enactment of the National Defense*  
11          *Authorization Act for Fiscal Year 2020, and semiannually*  
12          *thereafter, the Council shall—*

13                   “(1) *provide to the congressional defense commit-*  
14          *tees a briefing on, with respect to the period covered*  
15          *by the briefing—*

16                           “(A) *the dates on which the Council met;*  
17                           *and*

18                                   “(B) *a summary of any decisions made by*  
19          *the Council pursuant to subsection (d) at each*  
20          *such meeting, except with respect to budget deci-*  
21          *sions relating to the budget of the President for*  
22          *a fiscal year if the request for that fiscal year*  
23          *has not been submitted to Congress as of the date*  
24          *of the briefing; and*

1           “(2) submit to such committees at the time of the  
2       *briefing—*

3           “(A) any decision memoranda relating to  
4       *the decisions specified in paragraph (1)(B); and*

5           “(B) a summary of the rationale and con-  
6       *siderations that informed such decision.”.*

7       **SEC. 1643. ELIMINATION OF CONVENTIONAL REQUIREMENT**  
8           **FOR LONG-RANGE STANDOFF WEAPON.**

9       *Subsection (a) of section 217 of the National Defense*  
10 *Authorization Act for Fiscal Year 2014 (Public Law 113–*  
11 *66; 127 Stat. 706), as amended by section 1662 of the John*  
12 *S. McCain National Defense Authorization Act for Fiscal*  
13 *Year 2019 (Public Law 115–232; 132 Stat. 2152), is*  
14 *amended to read as follows:*

15       “(a) *LONG-RANGE STANDOFF WEAPON.—The Sec-*  
16 *retary of the Air Force shall develop a follow-on air-*  
17 *launched cruise missile to the AGM–86 that—*

18           “(1) *achieves initial operating capability for nu-*  
19 *clear missions prior to the retirement of the nuclear-*  
20 *armed AGM–86; and*

21           “(2) *is capable of internal carriage and employ-*  
22 *ment for nuclear missions on the next-generation*  
23 *long-range strike bomber.”.*

1 **SEC. 1644. EXTENSION OF ANNUAL BRIEFING ON THE**  
2 **COSTS OF FORWARD-DEPLOYING NUCLEAR**  
3 **WEAPONS IN EUROPE.**

4 *Section 1656(a) of the National Defense Authorization*  
5 *Act for Fiscal Year 2016 (Public Law 114–92; 129 Stat.*  
6 *1124) is amended—*

7 *(1) by striking “2021” and inserting “2024”;*  
8 *and*

9 *(2) by inserting “, the Committee on Foreign Af-*  
10 *fairs of the House of Representatives, and the Com-*  
11 *mittee on Foreign Relations of the Senate” after “the*  
12 *congressional defense committees”.*

13 **SEC. 1645. TEN-YEAR EXTENSION OF PROHIBITION ON**  
14 **AVAILABILITY OF FUNDS FOR MOBILE VARI-**  
15 **ANT OF GROUND-BASED STRATEGIC DETER-**  
16 **RENT MISSILE.**

17 *Section 1664 of the National Defense Authorization*  
18 *Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat.*  
19 *2615), as most recently amended by section 1666 of the*  
20 *John S. McCain National Defense Authorization Act for*  
21 *Fiscal Year 2019 (Public Law 115–232), is amended by*  
22 *striking “for any of fiscal years 2017 through 2020” and*  
23 *inserting “for any of fiscal years 2017 through 2030”.*

1 **SEC. 1646. PROHIBITION ON AVAILABILITY OF FUNDS FOR**  
2 **DEPLOYMENT OF LOW-YIELD BALLISTIC MIS-**  
3 **SILE WARHEAD.**

4 *None of the funds authorized to be appropriated by this*  
5 *Act or otherwise made available for fiscal year 2020 for the*  
6 *Department of Defense may be used to deploy the W76–*  
7 *2 low-yield warhead.*

8 **SEC. 1647. REPORT ON MILITARY-TO-MILITARY DIALOGUE**  
9 **TO REDUCE THE RISK OF MISCALCULATION**  
10 **LEADING TO NUCLEAR WAR.**

11 *Not later than 120 days after the date of the enactment*  
12 *of this Act, the Secretary of Defense, in coordination with*  
13 *the Secretary of State, shall submit to the congressional de-*  
14 *fense committee, the Committee on Foreign Affairs of the*  
15 *House of Representatives, and the Committee on Foreign*  
16 *Relations of the Senate a report containing the following:*

17 *(1) A description of—*

18 *(A) current military-to-military discussions*  
19 *of the United States with counterparts from gov-*  
20 *ernments of foreign countries to reduce the risk*  
21 *of miscalculation, unintended consequences, or*  
22 *accidents that could precipitate a nuclear war;*  
23 *and*

24 *(B) bilateral and multilateral agreements to*  
25 *which the United States is a party that address*  
26 *such risks.*

1           (2) *An assessment conducted jointly by the Sec-*  
2           *retary and the Chairman of the Joint Chiefs of Staff*  
3           *of the policy and operational necessity, risks, benefits,*  
4           *and costs of establishing military-to-military discus-*  
5           *sions with Russia, China, and North Korea to address*  
6           *such risks.*

7   **SEC. 1648. PLAN ON NUCLEAR COMMAND, CONTROL, AND**  
8                           **COMMUNICATIONS SYSTEMS.**

9           (a) *PLAN.*—*Not later than 270 days after the date of*  
10          *the enactment of this Act, the Secretary of Defense, in co-*  
11          *ordination with the Commander of the United States Stra-*  
12          *tegic Command, shall submit to the appropriate congres-*  
13          *sional committees a plan on the future of the nuclear com-*  
14          *mand, control, and communications systems.*

15          (b) *MATTERS INCLUDED.*—*The plan under subsection*  
16          *(a) shall address the following:*

17                 (1) *Near- and long-term plans and options to re-*  
18                 *capitalize the nuclear command, control, and commu-*  
19                 *nications systems to ensure the resilience of such sys-*  
20                 *tems.*

21                 (2) *Requirements for such systems, including*  
22                 *with respect to survivability and reliability.*

23                 (3) *The risks and benefits of replicating the cur-*  
24                 *rent architecture for such systems as of the date of the*  
25                 *plan.*

1           (4) *The risks and benefits of using different ar-*  
2 *chitectures for such systems, including, at a min-*  
3 *imum, using hosted payloads.*

4           (5) *Whether such architectures should be classi-*  
5 *fied or unclassified.*

6           (6) *Requirements and plans to ensure the secu-*  
7 *rity of the supply chain of nuclear command, control,*  
8 *and communications systems.*

9           (7) *Timelines and general cost estimates for*  
10 *long-term investments in such systems.*

11           (8) *Options for potential negotiation with adver-*  
12 *saries, including with respect to agreements to not*  
13 *target nuclear command, control, and communica-*  
14 *tions systems through kinetic, nonkinetic, or cyber at-*  
15 *tacks.*

16           (9) *Any other matters the Secretary determines*  
17 *appropriate.*

18       (c) *INTERIM BRIEFING.*—*Not later than 90 days after*  
19 *the date of the enactment of this Act, the Secretary, in co-*  
20 *ordination with the Commander, shall provide to the con-*  
21 *gressional defense committees a briefing on the plan under*  
22 *subsection (a).*

1 **SEC. 1649. INDEPENDENT STUDY ON POLICY OF NO-FIRST-**  
2 **USE OF NUCLEAR WEAPONS.**

3 (a) *STUDY.*—Not later than 30 days after the date of  
4 the enactment of this Act, the Secretary of Defense shall seek  
5 to enter into a contract with a federally funded research  
6 and development center to conduct a study on the United  
7 States adopting a policy to not use nuclear weapons first.

8 (b) *MATTERS INCLUDED.*—The study under subsection  
9 (a) shall include the following:

10 (1) *An assessment of the benefits of a policy to*  
11 *not use nuclear weapons first in reducing the risk of*  
12 *miscalculation in a crisis.*

13 (2) *An assessment of the likely reactions of the*  
14 *allies of the United States with respect to the United*  
15 *States adopting such a policy and how any negative*  
16 *reactions could be mitigated, including the value of*  
17 *engaging such allies to offer credible extended deter-*  
18 *rence assurances.*

19 (3) *An assessment of which foreign countries*  
20 *have stated or adopted such a policy.*

21 (4) *An assessment of how adversaries of the*  
22 *United States might view such a policy.*

23 (5) *An assessment of the benefits and risks of*  
24 *such a policy with respect to nuclear nonprolifera-*  
25 *tion.*



1       (b) *MATTERS INCLUDED.*—*The study under subsection*

2       (a) *shall—*

3               (1) *quantify the potential risks of nuclear ter-*  
4               *rorism and nuclear war, including the level of uncer-*  
5               *tainty;*

6               (2) *assess prior literature on such risks;*

7               (3) *assess the role that quantitative risk analysis*  
8               *and other disciplines can play in quantifying such*  
9               *risks, including the limitations of such analysis and*  
10              *disciplines;*

11              (4) *assess the extent to which the nuclear strat-*  
12              *egy of the United States is consistent with the risks*  
13              *of nuclear terrorism and nuclear war identified in the*  
14              *study; and*

15              (5) *provide recommendations as to whether fun-*  
16              *damental assumptions about the national security*  
17              *strategy of the United States might need to be recon-*  
18              *sidered.*

19       (c) *SUBMISSION.*—*Not later than one year after the*  
20       *date of the enactment of this Act, the Secretary shall submit*  
21       *to the congressional defense committees the study under sub-*  
22       *section (a), without change.*

23       (d) *FORM.*—*The study shall be submitted under sub-*  
24       *section (c) in unclassified form, but may include a classified*  
25       *annex.*

1                   **Subtitle E—Missile Defense**  
2                   **Programs**

3 **SEC. 1661. NATIONAL MISSILE DEFENSE POLICY.**

4           (a) *POLICY.*—Subsection (a) of section 1681 of the Na-  
5 tional Defense Authorization Act for Fiscal Year 2017 (Pub-  
6 lic Law 114–328; 10 U.S.C. 2431 note) is amended to read  
7 as follows:

8           “(a) *POLICY.*—It is the policy of the United States  
9 to—

10                   “(1) maintain and improve, with funding sub-  
11 ject to the annual authorization of appropriations  
12 and the annual appropriation of funds for National  
13 Missile Defense—

14                           “(A) an effective protection of the homeland  
15 of the United States against offensive missile  
16 threats posed by rogue states; and

17                           “(B) an effective regional missile defense  
18 system capable of defending the allies, partners,  
19 and deployed forces of the United States against  
20 increasingly complex missile threats; and

21                   “(2) rely on nuclear deterrence to address more  
22 sophisticated and larger quantity near-peer inter-  
23 continental ballistic missile threats.”.

24           (b) *BRIEFING.*—Not later than January 31, 2020, the  
25 Director of Cost Assessment and Program Evaluation shall

1 *provide to the Committee on Armed Services of the House*  
2 *of Representatives a briefing on the programmatic impacts*  
3 *across the Department of Defense with respect to the imple-*  
4 *mentation of the Missile Defense Review issued in 2019.*

5 **SEC. 1662. DEVELOPMENT OF HYPERSONIC AND BALLISTIC**  
6 **MISSILE TRACKING SPACE SENSOR PAYLOAD.**

7 *(a) DEVELOPMENT.—Section 1683 of the National De-*  
8 *fense Authorization Act for Fiscal Year 2018 (Public Law*  
9 *115–91; 10 U.S.C. 2431 note) is amended—*

10 *(1) by redesignating subsections (d), (e), (f), (g),*  
11 *and (h), as subsections (e), (f), (g), (h), and (j), re-*  
12 *spectively; and*

13 *(2) by inserting after subsection (c) the following*  
14 *new subsection (d):*

15 *“(d) HYPERSONIC AND BALLISTIC MISSILE TRACKING*  
16 *SPACE SENSOR PAYLOAD.—The Director, in coordination*  
17 *with the Director of the Space Development Agency and the*  
18 *Secretary of the Air Force, shall—*

19 *“(1) develop a hypersonic and ballistic missile*  
20 *tracking space sensor payload; and*

21 *“(2) include such payload as a component of the*  
22 *sensor architecture developed under subsection (a).”.*

23 *(b) UPDATED PLAN.—Such section is further amended*  
24 *by inserting after subsection (h), as redesignated by sub-*  
25 *section (a), the following new subsection:*

1       “(i) *UPDATED PLAN.*—Not later than 90 days after  
2 the date of the enactment of the National Defense Authoriza-  
3 tion Act for Fiscal Year 2020, the Director of the Missile  
4 Defense Agency, in coordination with the Director of the  
5 Space Development Agency and the Secretary of the Air  
6 Force, shall submit to the appropriate congressional com-  
7 mittees an update to the plan under subsection (h), includ-  
8 ing the following:

9               “(1) *How the Director of the Missile Defense*  
10 *Agency, in coordination with the Director of the*  
11 *Space Development Agency and the Secretary, will*  
12 *develop the payload under subsection (d) and include*  
13 *such payload in the sensor architecture developed*  
14 *under subsection (a).*

15               “(2) *How such payload will address the require-*  
16 *ment of the United States Strategic Command for a*  
17 *hypersonic and ballistic missile tracking space sens-*  
18 *ing capability.*

19               “(3) *The estimated costs (in accordance with*  
20 *subsection (e)) to develop, acquire, and deploy, and*  
21 *the lifecycle costs to operate and sustain, the payload*  
22 *under subsection (f) and include such payload in the*  
23 *sensor architecture developed under subsection (a).”.*

24       “(c) *CONFORMING AMENDMENT.*—Subsection (h)(1) of  
25 such section, as redesignated by subsection (a), is amended

1 *by striking “with subsection (d)” and inserting “with sub-*  
2 *section (e)”.*

3 **SEC. 1663. REQUIREMENT FOR TESTING OF REDESIGNED**  
4 **KILL VEHICLE PRIOR TO PRODUCTION.**

5 (a) *SENSE OF CONGRESS.—It is the sense of Congress*  
6 *that the Director of the Missile Defense Agency must address*  
7 *the technical issues of the redesigned kill vehicle prior to*  
8 *moving forward with development, procurement, and field-*  
9 *ing of the vehicle.*

10 (b) *MODIFICATIONS TO WAIVER REQUIREMENTS.—*  
11 *Subsection (b) of section 1683 of the John S. McCain Na-*  
12 *tional Defense Authorization Act for Fiscal Year 2019 (Pub-*  
13 *lic Law 115–232; 132 Stat. 2163) is amended to read as*  
14 *follows:*

15 “(b) *WAIVER.—The Secretary of Defense, without dele-*  
16 *gation, may waive subsection (a) if—*

17 “(1) *the Secretary determines that the waiver is*  
18 *in the interest of national security;*

19 “(2) *the Secretary conducts an assessment of the*  
20 *missile developments of both North Korea and Iran*  
21 *during the 18-month period preceding the date of the*  
22 *waiver;*

23 “(3) *the Secretary determines that the threat of*  
24 *missiles is advancing at a pace that requires addi-*  
25 *tional capacity of the ground-based midcourse defense*

1 *system by 2023, including in light of the assessment*  
2 *conducted under paragraph (2);*

3 *“(4) the Secretary determines that the waiver is*  
4 *appropriate in light of the assessment conducted by*  
5 *the Director of Operational Test and Evaluation*  
6 *under subsection (c);*

7 *“(5) the Secretary submits to the congressional*  
8 *defense committees a report containing—*

9 *“(A) a notice of the waiver, including the*  
10 *rationale of the Secretary for making the waiver;*  
11 *and*

12 *“(B) a certification by the Secretary that*  
13 *the Secretary has analyzed and accepts the risk*  
14 *of making and implementing a lot production*  
15 *decision for the redesigned kill vehicle prior to*  
16 *the vehicle undergoing a successful flight inter-*  
17 *cept test; and*

18 *“(6) a period of 30 days elapses following the*  
19 *date on which the Secretary submits the report under*  
20 *paragraph (5).”.*

21 *(c) MODIFICATION TO ASSESSMENT.—Subsection (c) of*  
22 *such section is amended by inserting “and to the congres-*  
23 *sional defense committees” after “to the Secretary of De-*  
24 *fense”.*

1 **SEC. 1664. DEVELOPMENT OF SPACE-BASED BALLISTIC MIS-**  
2 **SILE INTERCEPT LAYER.**

3 *Section 1688 of the National Defense Authorization*  
4 *Act for Fiscal Year 2018 (Public Law 115–91; 10 U.S.C.*  
5 *2431 note) is amended—*

6 *(1) by striking subsection (c); and*

7 *(2) by redesignating subsection (d) as subsection*  
8 *(c).*

9 **SEC. 1665. ORGANIZATION, AUTHORITIES, AND BILLETS OF**  
10 **THE MISSILE DEFENSE AGENCY.**

11 *(a) INDEPENDENT STUDY.—*

12 *(1) ASSESSMENT.—In accordance with para-*  
13 *graph (2), the Secretary of Defense shall seek to enter*  
14 *into a contract with a federally funded research and*  
15 *development center to conduct a study assessing—*

16 *(A) the organization of the Missile Defense*  
17 *Agency under the Under Secretary of Defense for*  
18 *Research and Engineering pursuant to section*  
19 *205(b) of title 10, United States Code;*

20 *(B) alternative ways to organize the Agency*  
21 *under other officials of the Department of De-*  
22 *fense, including the Under Secretary for Acquisi-*  
23 *tion and Sustainment and any other official of*  
24 *the Department the federally funded research*  
25 *and development center determines appropriate;*  
26 *and*

1           (C) *transitioning the Agency to the stand-*  
2           *ard acquisition process pursuant to Department*  
3           *of Defense Instruction 5000, including both the*  
4           *risks and benefits of making such a transition.*

5           (2) *SCOPE OF STUDY.—Before entering into the*  
6           *contract with a federally funded research and develop-*  
7           *ment center to conduct the study under paragraph*  
8           *(1), the Secretary shall provide to the congressional*  
9           *defense committees an update on the scope of such*  
10          *study.*

11          (3) *SUBMISSION TO DOD.—Not later than 150*  
12          *days after the date of the enactment of this Act, the*  
13          *federally funded research and development center*  
14          *shall submit to the Secretary a report containing the*  
15          *study conducted under paragraph (1).*

16          (4) *SUBMISSION TO CONGRESS.—Not later than*  
17          *180 days after the date of the enactment of this Act,*  
18          *the Secretary shall submit to the congressional defense*  
19          *committees the study under paragraph (1), without*  
20          *change.*

21          (b) *NOTIFICATION ON CHANGES TO NON-STANDARD*  
22          *ACQUISITION PROCESSES AND RESPONSIBILITIES.—*

23                 (1) *LIMITATION.—None of the funds authorized*  
24                 *to be appropriated by this Act or otherwise made*  
25                 *available for fiscal year 2020 for the Secretary of De-*

1 *fense may be obligated or expended to change the non-*  
2 *standard acquisition processes and responsibilities de-*  
3 *scribed in paragraph (2) until—*

4 *(A) the Secretary notifies the congressional*  
5 *defense committees of such proposed change; and*

6 *(B) a period of 90 days has elapsed fol-*  
7 *lowing the date of such notification.*

8 *(2) NON-STANDARD ACQUISITION PROCESSES AND*  
9 *RESPONSIBILITIES DESCRIBED.—The non-standard*  
10 *acquisition processes and responsibilities described in*  
11 *this paragraph are such processes and responsibilities*  
12 *described in—*

13 *(A) the memorandum of the Secretary of*  
14 *Defense titled “Missile Defense Program Direc-*  
15 *tion” signed on January 2, 2002;*

16 *(B) Department of Defense Directive*  
17 *5134.09, as in effect on the date of the enactment*  
18 *of this Act; and*

19 *(C) United States Strategic Command In-*  
20 *struction 583–3.*

21 *(c) LIMITATION ON CERTAIN TRANSFERS OF BIL-*  
22 *LETS.—During fiscal year 2020, the Secretary of Defense*  
23 *may not transfer civilian or military billets from the Mis-*  
24 *sile Defense Agency to any element of the Department under*

1 *the Under Secretary of Defense for Research and Engineer-*  
2 *ing until, for each such transfer—*

3           (1) *the Secretary notifies the congressional de-*  
4 *fense committees of such proposed transfer; and*

5           (2) *a period of 90 days has elapsed following the*  
6 *date of such notification.*

7 **SEC. 1666. MISSILE DEFENSE INTERCEPTOR SITE IN CON-**  
8 **TIGUOUS UNITED STATES.**

9           (a) *DESIGNATION.*—*The Secretary shall designate the*  
10 *preferred location of a missile defense site in the contiguous*  
11 *United States from among the locations evaluated pursuant*  
12 *to section 227 of the National Defense Authorization Act*  
13 *for Fiscal Year 2013 (Public Law 112–239; 126 Stat.*  
14 *1678). The Secretary shall make such designation based on*  
15 *the following:*

16           (1) *The environmental impact statement pre-*  
17 *pared pursuant to section 227 of the National Defense*  
18 *Authorization Act for Fiscal Year 2013 (Public Law*  
19 *112–239; 126 Stat. 1678).*

20           (2) *Strategic and operational effectiveness, in-*  
21 *cluding with respect to the location that is the most*  
22 *advantageous site in providing coverage to the entire*  
23 *contiguous United States, including having the capa-*  
24 *bility to provide shoot-assess-shoot coverage to the en-*  
25 *tire contiguous United States.*

1           (3) *Construction remediation efforts and impacts*  
2           *to the existing environment at the site.*

3           (4) *The existing infrastructure at the site.*

4           (5) *The costs to construct, equip, and operate the*  
5           *site.*

6           (b) *REPORT.*—*Not later than January 31, 2020, the*  
7           *Secretary shall submit to the congressional defense commit-*  
8           *tees a report on the designation made under subsection (a)*  
9           *with respect to each factor specified in paragraphs (1)*  
10          *through (5) of such subsection.*

11          (c) *RULE OF CONSTRUCTION.*—*Nothing in this section*  
12          *may be construed—*

13                 (1) *as requiring the Secretary of Defense to begin*  
14                 *a military construction project relating to the missile*  
15                 *defense site in the contiguous United States; or*

16                 (2) *as a statement that there is any current mili-*  
17                 *tary requirement for such a site.*

18          (d) *CONFORMING REPEAL.*—*Section 1681 of the Na-*  
19          *tional Defense Authorization Act for Fiscal Year 2018 (Pub-*  
20          *lic Law 115–91; 131 Stat. 1776) is repealed.*

21          **SEC. 1667. MISSILE DEFENSE RADAR IN HAWAII.**

22                 (a) *CONSTRUCTION OF HOMELAND DEFENSE RADAR—*  
23                 *HAWAII.*—*Subject to subsection (b), the Director of the Mis-*  
24                 *sile Defense Agency may use funds authorized to be appro-*  
25                 *priated by this Act or otherwise made available for fiscal*

1 *year 2020 for research, development, test, and evaluation*  
2 *for the Missile Defense Agency to design, build, and inte-*  
3 *grate the foundation of the homeland defense radar in Ha-*  
4 *waii and the thermal control system of the radar.*

5       **(b) LIMITATION.**—*Of the funds authorized to be appro-*  
6 *priated by this Act or otherwise made available for fiscal*  
7 *year 2020 for research, development, test, and evaluation*  
8 *for the homeland defense radar in Hawaii, not more than*  
9 *85 percent may be obligated or expended until the Direc-*  
10 *tor—*

11           **(1)** *completes the critical design review of the*  
12 *radar;*

13           **(2)** *submits to the congressional defense commit-*  
14 *tees an assessment conducted by the Army Corps of*  
15 *Engineers on the research, development, test, and*  
16 *evaluation proposal to design, build, and integrate the*  
17 *foundation of the radar and the thermal control sys-*  
18 *tem of the radar that highlights any unique compo-*  
19 *nents of such proposal; and*

20           **(3)** *provides to such committees a briefing on in-*  
21 *corporating the foundation and thermal control sys-*  
22 *tem into the overall design of the radar.*

1 **SEC. 1668. LIMITATION ON AVAILABILITY OF FUNDS FOR**  
2 **LOWER TIER AIR AND MISSILE SENSOR.**

3 (a) *LIMITATION.*—Of the funds authorized to be appro-  
4 priated by this Act or otherwise made available for fiscal  
5 year 2020 for the Army for the lower tier air and missile  
6 defense sensor, not more than 75 percent may be obligated  
7 or expended until the Secretary of the Army submits the  
8 report under subsection (b).

9 (b) *REPORT.*—The Secretary of the Army shall submit  
10 to the congressional defense committees a report on the test  
11 and demonstration of lower tier air and missile defense sen-  
12 sors that occurred during the third quarter of fiscal year  
13 2019. Such report shall include the following:

14 (1) *An explanation of how the test and dem-*  
15 *onstration was conducted and what the test and dem-*  
16 *onstration set out to achieve, including—*

17 (A) *an explanation of the performance spec-*  
18 *ifications used; and*

19 (B) *a description of the emulated threats*  
20 *used in the test and demonstration and how such*  
21 *threats compare to emerging regional air and*  
22 *missile threats.*

23 (2) *An explanation of the capability of the sensor*  
24 *system that the Secretary determined to be the winner*  
25 *of the test and demonstration, including with respect*  
26 *to—*

1           (A) *the capability of such sensor system*  
2           *against key threats and requirements, including*  
3           *whether such sensor system will be delivered with*  
4           *full 360-degree coverage and the ability of such*  
5           *sensor system to detect, track, and surveil tar-*  
6           *gets;*

7           (B) *the estimated procurement and life-cycle*  
8           *costs of operating such sensor system; and*

9           (C) *the cost, timeline, and approach that*  
10          *will be used to integrate the lower tier air and*  
11          *missile defense sensor with other sensors using*  
12          *the Integrated Air and Missile Defense Battle*  
13          *Command System.*

14          (3) *An explanation of whether future perform-*  
15          *ance improvements to the lower tier air and missile*  
16          *defense sensor are conditional on intellectual property*  
17          *and how such improvements will be made if the*  
18          *United States does not own such intellectual property.*

19 **SEC. 1669. COMMAND AND CONTROL, BATTLE MANAGE-**  
20 **MENT, AND COMMUNICATIONS PROGRAM.**

21          (a) *LIMITATION ON SALE.*—*The Director of the Missile*  
22          *Defense Agency may not pursue release of the command and*  
23          *control, battle management, and communications program*  
24          *(or any variants thereof) for export until the date on which*  
25          *the Director submits the report under subsection (b).*

1       (b) *REPORT.*—Not later than 90 days after the date  
2 of the enactment of this Act, the Director shall submit to  
3 the congressional defense committees, the Committee on For-  
4 eign Affairs of the House of Representatives, and the Com-  
5 mittee on Foreign Relations of the Senate a report con-  
6 taining the following:

7           (1) *An explanation of the rationale of the Direc-*  
8 *tor for considering to export the command and con-*  
9 *trol, battle management, and communications pro-*  
10 *gram (or any variants thereof) in light of the critical*  
11 *role of the program in the strategic national defense*  
12 *of the United States and the allies of the United*  
13 *States against ballistic missile attack.*

14           (2) *The findings of the market research and*  
15 *analysis conducted by the Director regarding export-*  
16 *able command and control solutions for ballistic mis-*  
17 *sile defense, including such solutions that are inter-*  
18 *nationally available.*

19 **SEC. 1670. ANNUAL ASSESSMENT OF BALLISTIC MISSILE**  
20 **DEFENSE SYSTEM.**

21       (a) *SENSE OF CONGRESS.*—It is the sense of Congress  
22 that operational test and evaluation of elements of the bal-  
23 listic missile defense system should be conducted thoroughly  
24 in accordance with section 2399 of title 10, United States  
25 Code, including with respect to the reports required to be

1 *submitted to the congressional defense committees under*  
2 *subsection (b) of such section regarding the results of testing*  
3 *conducted on major defense acquisition programs.*

4       **(b) ANNUAL ASSESSMENT.**—*As part of the annual re-*  
5 *port of the Director of Operational Test and Evaluation*  
6 *submitted to Congress under section 139 of title 10, United*  
7 *States Code, the Director shall include an assessment of the*  
8 *ballistic missile defense system and all of the elements of*  
9 *the system that have been fielded or are planned, as of the*  
10 *date of the assessment, including—*

11               **(1)** *the operational effectiveness, suitability, and*  
12 *survivability of the ballistic missile defense system*  
13 *and the elements of the system that have been fielded*  
14 *or tested; and*

15               **(2)** *the adequacy and sufficiency of the test pro-*  
16 *gram of such system as of the date of the assessment,*  
17 *including with respect to the operational realism of*  
18 *the tests.*

19       **(c) FORM.**—*Each assessment under subsection (a) may*  
20 *be submitted in unclassified form, and may include a clas-*  
21 *sified annex.*

1                   **Subtitle F—Other Matters**

2   **SEC. 1681. MODIFICATION TO REPORTS ON CERTAIN SOLID**  
3                   **ROCKET MOTORS.**

4            *Section 1696(b) of the John S. McCain National De-*  
5 *fense Authorization Act for Fiscal Year 2019 (Public Law*  
6 *115–232; 132 Stat. 2171) is amended—*

7                   (1) *by striking “rockets or missiles” and insert-*  
8 *ing “rockets, missiles, or space launch services” each*  
9 *place it appears; and*

10                   (2) *in paragraph (2)(C), by striking “rocket or*  
11 *missile” and inserting “rocket, missile, or space*  
12 *launch service”.*

13   **SEC. 1682. REPEAL OF REVIEW REQUIREMENT FOR AMMO-**  
14                   **NIUM PERCHLORATE REPORT.**

15            *Section 1694(d) of the National Defense Authorization*  
16 *Act for Fiscal Year 2018 (Public Law 115–91; 131 Stat.*  
17 *1792) is repealed.*

18   **SEC. 1683. REPEAL OF REQUIREMENT FOR COMMISSION ON**  
19                   **ELECTROMAGNETIC PULSE ATTACKS AND**  
20                   **SIMILAR EVENTS.**

21            (a) *FINDINGS.—Congress finds the following:*

22                   (1) *On March 26, 2019, the President released*  
23 *the “Executive Order on Coordinating National Resil-*  
24 *ience to Electromagnetic Pulses”.*

1           (2) *The Executive Order codifies policy, roles,*  
2           *and responsibilities within the executive branch in*  
3           *order to foster sustainable, efficient, and cost-effective*  
4           *approaches to improving the resilience of the United*  
5           *States to the effects of electromagnetic pulses.*

6           (b) *REPEAL.*—*Section 1691 of the National Defense*  
7           *Authorization Act for Fiscal Year 2018 (Public Law 115–*  
8           *91; 131 Stat. 1786) is repealed.*

9           **SEC. 1684. CONVENTIONAL PROMPT GLOBAL STRIKE WEAP-**  
10           **ON SYSTEM.**

11           (a) *SENSE OF CONGRESS.*—*It is the sense of Congress*  
12           *that—*

13           (1) *the Under Secretary of Defense for Policy has*  
14           *not adequately responded to Congress regarding the*  
15           *miscalculation and ambiguity risks posed by*  
16           *hypersonic weapons, specifically from submarine-*  
17           *launched platforms, including pursuant to the report*  
18           *required by section 1698 of the John S. McCain Na-*  
19           *tional Defense Authorization Act for Fiscal Year 2019*  
20           *(Public Law 115-232; 132 Stat. 2172); and*

21           (2) *the Secretary of Defense should coordinate*  
22           *technology maturation efforts to develop common tech-*  
23           *nologies for hypersonics, and should leverage defense*  
24           *laboratories and university partners to lead*  
25           *foundational hypersonic research in areas the Sec-*

1        *retary determines appropriate for the Department of*  
2        *Defense.*

3        *(b) PROHIBITION.—None of the funds authorized to be*  
4        *appropriated by this Act or otherwise made available for*  
5        *fiscal year 2020 for the conventional prompt global strike*  
6        *weapon system may be used for a submarine-launched con-*  
7        *ventional prompt global strike capability, including with*  
8        *respect to developing or testing such a capability, unless*  
9        *such capability—*

10            *(1) is transferrable to a surface-launched plat-*  
11            *form; and*

12            *(2) is not exclusive to submarines.*

13        *(c) REPORT.—Not later than 120 days after the date*  
14        *of the enactment of this Act, the Secretary of the Navy shall*  
15        *submit to the congressional defense committees a report on*  
16        *the programmatic changes required to integrate the conven-*  
17        *tional prompt global strike weapon system into the DDG–*  
18        *1000 program or other surface ships.*

19        ***DIVISION      B—MILITARY      CON-***  
20        ***STRUCTION                      AUTHORIZA-***  
21        ***TIONS***

22        ***SEC. 2001. SHORT TITLE.***

23        *This division may be cited as the “Military Construc-*  
24        *tion Authorization Act for Fiscal Year 2020”.*

1 **SEC. 2002. EXPIRATION OF AUTHORIZATIONS AND**  
2 **AMOUNTS REQUIRED TO BE SPECIFIED BY**  
3 **LAW.**

4 (a) *EXPIRATION OF AUTHORIZATIONS AFTER FIVE*  
5 *YEARS.*—*Except as provided in subsection (b), all author-*  
6 *izations contained in titles XXI through XXX (other than*  
7 *title XXVIII) for military construction projects, land acqui-*  
8 *sition, family housing projects and facilities, and contribu-*  
9 *tions to the North Atlantic Treaty Organization Security*  
10 *Investment Program (and authorizations of appropriations*  
11 *therefor) shall expire on the later of—*

12 (1) *October 1, 2024; or*

13 (2) *the date of the enactment of an Act author-*  
14 *izing funds for military construction for fiscal year*  
15 *2025.*

16 (b) *EXCEPTION.*—*Subsection (a) shall not apply to au-*  
17 *thorizations for military construction projects, land acqui-*  
18 *sition, family housing projects and facilities, and contribu-*  
19 *tions to the North Atlantic Treaty Organization Security*  
20 *Investment Program (and authorizations of appropriations*  
21 *therefor), for which appropriated funds have been obligated*  
22 *before the later of—*

23 (1) *October 1, 2024; or*

24 (2) *the date of the enactment of an Act author-*  
25 *izing funds for fiscal year 2025 for military construc-*  
26 *tion projects, land acquisition, family housing*

1 projects and facilities, or contributions to the North  
 2 Atlantic Treaty Organization Security Investment  
 3 Program.

4 **SEC. 2003. EFFECTIVE DATE.**

5 Titles XXI through XXX (other than title XXVIII)  
 6 shall take effect on the later of—

7 (1) October 1, 2019; or

8 (2) the date of the enactment of this Act.

9 **TITLE XXI—ARMY MILITARY**  
 10 **CONSTRUCTION**

11 **SEC. 2101. AUTHORIZED ARMY CONSTRUCTION AND LAND**  
 12 **ACQUISITION PROJECTS.**

13 (a) *INSIDE THE UNITED STATES.*—Using amounts ap-  
 14 propriated pursuant to the authorization of appropriations  
 15 in section 2103(a) and available for military construction  
 16 projects inside the United States as specified in the funding  
 17 table in section 4601, the Secretary of the Army may ac-  
 18 quire real property and carry out military construction  
 19 projects for the installations or locations inside the United  
 20 States, and in the amounts, set forth in the following table:

**Army: Inside the United States**

<b>State</b>	<b>Installation</b>	<b>Amount</b>
Alabama .....	Redstone Arsenal .....	\$38,000,000
Colorado .....	Fort Carson .....	\$71,000,000
Georgia .....	Fort Gordon .....	\$107,000,000
	Hunter Army Airfield .....	\$62,000,000
Kentucky .....	Fort Campbell .....	\$61,300,000
Kwajalein .....	Kwajalein Atoll .....	\$40,000,000
Massachusetts .....	Natick Soldier Systems Center .....	\$50,000,000
Michigan .....	Detroit Arsenal .....	\$24,000,000
New York .....	Fort Drum .....	\$44,000,000
North Carolina .....	Fort Bragg .....	\$12,500,000
Oklahoma .....	Fort Sill .....	\$73,000,000

**Army: Inside the United States—Continued**

<b>State</b>	<b>Installation</b>	<b>Amount</b>
Pennsylvania .....	Carlisle Barracks .....	\$98,000,000
South Carolina .....	Fort Jackson .....	\$88,000,000
Texas .....	Corpus Christi Army Depot .....	\$86,000,000
	Fort Hood .....	\$50,500,000
Virginia .....	Fort Belvoir .....	\$60,000,000
	Joint Base Langley-Eustis .....	\$55,000,000
Washington .....	Joint Base Lewis-McChord .....	\$46,000,000

1           (b) *OUTSIDE THE UNITED STATES.—Using amounts*  
 2 *appropriated pursuant to the authorization of appropria-*  
 3 *tions in section 2103(a) and available for military con-*  
 4 *struction projects outside the United States as specified in*  
 5 *the funding table in section 4601, the Secretary of the Army*  
 6 *may acquire real property and carry out the military con-*  
 7 *struction project for the installation or location outside the*  
 8 *United States, and in the amount, set forth in the following*  
 9 *table:*

**Army: Outside the United States**

<b>Country</b>	<b>Installation</b>	<b>Amount</b>
Honduras .....	Soto Cano Air Base .....	\$34,000,000

10           (c) *STUDY OF NEAR-TERM FACILITY ALTERNATIVES*  
 11 *TO HOUSE HIGH VALUE DETAINEES.—*

12           (1) *STUDY REQUIRED.—The Secretary of Defense*  
 13 *shall conduct a study of alternatives to meet the near-*  
 14 *term facility requirements to safely and humanely*  
 15 *house high value detainees current detained at Naval*  
 16 *Station Guantanamo Bay, Cuba. As part of the*  
 17 *study, the Secretary shall consider the following alter-*  
 18 *natives:*

1           (A) *The construction of new facilities.*

2           (B) *The repair of current facilities.*

3           (C) *The renovation and repurposing of*  
4 *other facilities at Naval Station Guantanamo*  
5 *Bay, Cuba.*

6           (D) *Such other alternatives as the Secretary*  
7 *considers practicable.*

8           (2) *SUBMISSION OF RESULTS.—Not later than*  
9 *90 days after the date of the enactment of this Act,*  
10 *the Secretary of Defense shall submit to the congress-*  
11 *sional defense committees a report containing the re-*  
12 *sults of the study conducted under paragraph (1). The*  
13 *report shall be unclassified, but may include a classi-*  
14 *fied annex.*

15 **SEC. 2102. FAMILY HOUSING.**

16           (a) *CONSTRUCTION AND ACQUISITION.—Using*  
17 *amounts appropriated pursuant to the authorization of ap-*  
18 *propriations in section 2103(a) and available for military*  
19 *family housing functions as specified in the funding table*  
20 *in section 4601, the Secretary of the Army may construct*  
21 *or acquire family housing units (including land acquisition*  
22 *and supporting facilities) at the installation, and in the*  
23 *amount, set forth in the following table:*

**Army: Family Housing**

<b>State/Country</b>	<b>Installation</b>	<b>Units</b>	<b>Amount</b>
<i>Pennsylvania .....</i>	<i>Tobyhanna Army Depot .....</i>	<i>Family Housing Replacement Construction .....</i>	<i>\$19,000,000</i>

1       **(b) PLANNING AND DESIGN.**—Using amounts appro-  
2       priated pursuant to the authorization of appropriations in  
3       section 2103(a) and available for military family housing  
4       functions as specified in the funding table in section 4601,  
5       the Secretary of the Army may carry out architectural and  
6       engineering services and construction design activities with  
7       respect to the construction or improvement of family hous-  
8       ing units in an amount not to exceed \$9,222,000.

9       **SEC. 2103. AUTHORIZATION OF APPROPRIATIONS, ARMY.**

10       **(a) AUTHORIZATION OF APPROPRIATIONS.**—Funds are  
11       hereby authorized to be appropriated for fiscal years begin-  
12       ning after September 30, 2019, for military construction,  
13       land acquisition, and military family housing functions of  
14       the Department of the Army as specified in the funding  
15       table in section 4601.

16       **(b) LIMITATION ON TOTAL COST OF CONSTRUCTION**  
17       **PROJECTS.**—Notwithstanding the cost variations author-  
18       ized by section 2853 of title 10, United States Code, and  
19       any other cost variation authorized by law, the total cost  
20       of all projects carried out under section 2101 of this Act  
21       may not exceed the total amount authorized to be appro-

1 *priated under subsection (a), as specified in the funding*  
2 *table in section 4601.*

3 **SEC. 2104. MODIFICATION OF AUTHORITY TO CARRY OUT**  
4 **CERTAIN FISCAL YEAR 2019 PROJECTS.**

5 (a) *ANNISTON ARMY DEPOT, ALABAMA.—In the case*  
6 *of the authorization contained in the table in section*  
7 *2101(a) of the National Defense Authorization Act for Fis-*  
8 *cal Year 2019 (Public Law 115–232; 132 Stat. 2241) for*  
9 *Anniston Army Depot, Alabama, for construction of a*  
10 *weapon maintenance shop, as specified in the funding table*  
11 *in section 4601 of such Act (132 Stat. 2401), the Secretary*  
12 *of the Army may construct a 21,000-square foot weapon*  
13 *maintenance shop.*

14 (b) *UNITED STATES MILITARY ACADEMY, NEW*  
15 *YORK.—The table in section 2101(a) of the National De-*  
16 *fense Authorization Act for Fiscal Year 2019 (Public Law*  
17 *115–232; 132 Stat. 2241) is amended in the item relating*  
18 *to the United States Military Academy, New York, by strik-*  
19 *ing “\$160,000,000” and inserting “\$197,000,000” for con-*  
20 *struction of a Consolidated Engineering Center and Park-*  
21 *ing Structure rather than the separate projects specified in*  
22 *the funding table in section 4601 of such Act (132 Stat.*  
23 *2401).*

**TITLE XXII—NAVY MILITARY  
CONSTRUCTION**

**SEC. 2201. AUTHORIZED NAVY CONSTRUCTION AND LAND  
ACQUISITION PROJECTS.**

(a) *INSIDE THE UNITED STATES.—Using amounts appropriated pursuant to the authorization of appropriations in section 2204(a) and available for military construction projects inside the United States as specified in the funding table in section 4601, the Secretary of the Navy may acquire real property and carry out military construction projects for the installations or locations inside the United States, and in the amounts, set forth in the following table:*

***Navy: Inside the United States***

<b>State</b>	<b>Installation or Location</b>	<b>Amount</b>
Arizona .....	Marine Corps Air Station Yuma .....	\$ 189,760,000
California .....	Camp Pendleton .....	\$185,569,000
	Marine Corps Air Station Miramar .....	\$37,400,000
	Naval Air Weapons Station China Lake .....	\$64,500,000
	Navel Base Coronado .....	\$165,830,000
	Naval Base San Diego .....	\$9,900,000
	Naval Weapons Station Seal Beach .....	\$123,310,000
	Travis Air Force Base .....	\$64,000,000
Connecticut .....	Naval Submarine Base New London .....	\$72,260,000
Florida .....	Blount Island .....	\$18,700,000
	Naval Air Station Jacksonville .....	\$32,420,000
Guam .....	Joint Region Marianas .....	\$226,000,000
Hawaii .....	Marine Corps Air Station Kaneohe Bay .....	\$134,050,000
	Naval Ammunition Depot West Loch .....	\$53,790,000
Maryland .....	Saint Inigoes .....	\$15,000,000
North Carolina .....	Camp Lejeune .....	\$217,440,000
	Marine Corps Air Station Cherry Point .....	\$114,570,000
	Marine Corps Air Station New River .....	\$11,320,000
Pennsylvania .....	Philadelphia .....	\$66,000,000
South Carolina .....	Parris Island .....	\$37,200,000
Virginia .....	Marine Corps Base Quantico .....	\$143,350,000
	Naval Station Norfolk .....	\$128,100,000
	Portsmouth Naval Shipyard .....	\$48,930,000
	Yorktown Naval Weapons Station .....	\$59,000,000
Washington .....	Bremerton .....	\$51,010,000
	Keyport .....	\$25,050,000

1           (b) *OUTSIDE THE UNITED STATES.*—Using amounts  
 2 appropriated pursuant to the authorization of appropri-  
 3 ations in section 2204(a) and available for military con-  
 4 struction projects outside the United States as specified in  
 5 the funding table in section 4601, the Secretary of the Navy  
 6 may acquire real property and carry out military construc-  
 7 tion projects for the installations or locations outside the  
 8 United States, and in the amounts, set forth in the following  
 9 table:

***Navy: Outside the United States***

<b><i>Country</i></b>	<b><i>Installation or Location</i></b>	<b><i>Amount</i></b>
<i>Japan</i> .....	<i>Fleet Activities Yokosuka</i> .....	\$174,692,000
	<i>Marine Corps Air Station Iwakuni</i> .....	\$15,870,000

10 **SEC. 2202. FAMILY HOUSING.**

11           Using amounts appropriated pursuant to the author-  
 12 ization of appropriations in section 2204(a) and available  
 13 for military family housing functions as specified in the  
 14 funding table in section 4601, the Secretary of the Navy  
 15 may carry out architectural and engineering services and  
 16 construction design activities with respect to the construc-  
 17 tion or improvement of family housing units in an amount  
 18 not to exceed \$5,863,000.

19 **SEC. 2203. IMPROVEMENTS TO MILITARY FAMILY HOUSING**  
 20 **UNITS.**

21           Subject to section 2825 of title 10, United States Code,  
 22 and using amounts appropriated pursuant to the author-

1 ization of appropriations in section 2204(a) and available  
2 for military family housing functions as specified in the  
3 funding table in section 4601, the Secretary of the Navy  
4 may improve existing military family housing units in an  
5 amount not to exceed \$41,798,000.

6 **SEC. 2204. AUTHORIZATION OF APPROPRIATIONS, NAVY.**

7       (a) *AUTHORIZATION OF APPROPRIATIONS.*—Funds are  
8 hereby authorized to be appropriated for fiscal years begin-  
9 ning after September 30, 2019, for military construction,  
10 land acquisition, and military family housing functions of  
11 the Department of the Navy, as specified in the funding  
12 table in section 4601.

13       (b) *LIMITATION ON TOTAL COST OF CONSTRUCTION*  
14 *PROJECTS.*—Notwithstanding the cost variations author-  
15 ized by section 2853 of title 10, United States Code, and  
16 any other cost variation authorized by law, the total cost  
17 of all projects carried out under section 2201 of this Act  
18 may not exceed the total amount authorized to be appro-  
19 priated under subsection (a), as specified in the funding  
20 table in section 4601.

21 **SEC. 2205. MODIFICATION OF AUTHORITY TO CARRY OUT**  
22 **CERTAIN FISCAL YEAR 2017 PROJECT.**

23       The table in section 2201(a) of the National Defense  
24 Authorization Act for Fiscal Year 2017 (Public Law 114–  
25 328; 130 Stat. 2691) is amended in the item relating to

1 *Bangor, Washington, by striking “\$113,415,000” and in-*  
 2 *serting “\$161,415,000” for construction of a SEAWOLF*  
 3 *Class Service Pier, as specified in the funding table in sec-*  
 4 *tion 4601 of such Act (130 Stat. 2876).*

5 **TITLE XXIII—AIR FORCE**  
 6 **MILITARY CONSTRUCTION**

7 **SEC. 2301. AUTHORIZED AIR FORCE CONSTRUCTION AND**  
 8 **LAND ACQUISITION PROJECTS.**

9 (a) *INSIDE THE UNITED STATES.—Using amounts ap-*  
 10 *propriated pursuant to the authorization of appropriations*  
 11 *in section 2304(a) and available for military construction*  
 12 *projects inside the United States as specified in the funding*  
 13 *table in section 4601, the Secretary of the Air Force may*  
 14 *acquire real property and carry out military construction*  
 15 *projects for the installations or locations inside the United*  
 16 *States, and in the amounts, set forth in the following table:*

***Air Force: Inside the United States***

<b>State</b>	<b>Installation or Location</b>	<b>Amount</b>
<i>Alaska</i> .....	<i>Eielson Air Force Base</i> .....	<i>\$8,600,000</i>
<i>Arkansas</i> .....	<i>Little Rock Air Force Base</i> .....	<i>\$47,000,000</i>
<i>California</i> .....	<i>Travis Air Force Base</i> .....	<i>\$43,100,000</i>
<i>Colorado</i> .....	<i>Peterson Air Force Base</i> .....	<i>\$54,000,000</i>
	<i>Schriever Air Force Base</i> .....	<i>\$148,000,000</i>
	<i>United States Air Force Academy</i>	<i>\$49,000,000</i>
<i>Georgia</i> .....	<i>Moody Air Force Base</i> .....	<i>\$12,500,000</i>
<i>Guam</i> .....	<i>Joint Region Marianas</i> .....	<i>\$65,000,000</i>
<i>Illinois</i> .....	<i>Scott Air Force Base</i> .....	<i>\$100,000,000</i>
<i>Mariana Islands</i> .....	<i>Tinian</i> .....	<i>\$316,000,000</i>
<i>Missouri</i> .....	<i>Whiteman Air Force Base</i> .....	<i>\$27,000,000</i>
<i>Montana</i> .....	<i>Malmstrom Air Force Base</i> .....	<i>\$235,000,000</i>
<i>Nevada</i> .....	<i>Nellis Air Force Base</i> .....	<i>\$65,200,000</i>
<i>New Mexico</i> .....	<i>Holloman Air Force Base</i> .....	<i>\$20,000,000</i>
	<i>Kirtland Air Force Base</i> .....	<i>\$37,900,000</i>
<i>Texas</i> .....	<i>Joint Base San Antonio</i> .....	<i>\$207,300,000</i>
	<i>Joint Base San Antonio-Ran-</i>	
	<i>dolph</i> .....	<i>\$36,000,000</i>
<i>Utah</i> .....	<i>Hill Air Force Base</i> .....	<i>\$114,500,000</i>
<i>Washington</i> .....	<i>Fairchild-White Bluff</i> .....	<i>\$31,000,000</i>

1           (b) *OUTSIDE THE UNITED STATES.*—Using amounts  
 2 appropriated pursuant to the authorization of appropria-  
 3 tions in section 2304(a) and available for military con-  
 4 struction projects outside the United States as specified in  
 5 the funding table in section 4601, the Secretary of the Air  
 6 Force may acquire real property and carry out military  
 7 construction projects for the installations or locations out-  
 8 side the United States, and in the amounts, set forth in  
 9 the following table:

**Air Force: Outside the United States**

<b>Country</b>	<b>Installation or Location</b>	<b>Amount</b>
<i>Australia</i> .....	<i>Tindal</i> .....	\$70,600,000
<i>Cyprus</i> .....	<i>Royal Air Force Akrotiri</i> .....	\$27,000,000
<i>Japan</i> .....	<i>Yokota Air Base</i> .....	\$12,400,000
<i>United Kingdom</i> .....	<i>Royal Air Force Lakenheath</i> .....	\$14,300,000

10 **SEC. 2302. FAMILY HOUSING.**

11           (a) *CONSTRUCTION AND ACQUISITION.*—Using  
 12 amounts appropriated pursuant to the authorization of ap-  
 13 propriations in section 2304(a) and available for military  
 14 family housing functions as specified in the funding table  
 15 in section 4601, the Secretary of the Air Force may con-  
 16 struct or acquire family housing units (including land ac-  
 17 quisition and supporting facilities) at the installation, and  
 18 in the amount, set forth in the following table:

**Air Force: Family Housing**

<b>Country</b>	<b>Installation</b>	<b>Units</b>	<b>Amount</b>
<i>Germany</i> .....	<i>Spangdahlem Air Base</i> .....	<i>Family Housing Construction</i> .....	\$53,584,000



1           (b) *LIMITATION ON TOTAL COST OF CONSTRUCTION*  
2 *PROJECTS.*—*Notwithstanding the cost variations author-*  
3 *ized by section 2853 of title 10, United States Code, and*  
4 *any other cost variation authorized by law, the total cost*  
5 *of all projects carried out under section 2301 of this Act*  
6 *may not exceed the total amount authorized to be appro-*  
7 *priated under subsection (a), as specified in the funding*  
8 *table in section 4601.*

9 **SEC. 2305. MODIFICATION OF AUTHORITIES TO CARRY OUT**  
10                           **PHASED JOINT INTELLIGENCE ANALYSIS**  
11                           **COMPLEX CONSOLIDATION.**

12           (a) *FISCAL YEAR 2015 PROJECT AUTHORITY.*—*In the*  
13 *case of the authorization contained in the table in section*  
14 *2301(b) of the National Defense Authorization Act for Fis-*  
15 *cal Year 2015 (Public Law 113–291; 128 Stat. 3679) for*  
16 *Royal Air Force Croughton, United Kingdom, for Phase 1*  
17 *of the Joint Intelligence Analysis Complex consolidation, as*  
18 *specified in the funding table in section 4601 of such Act*  
19 *(128 Stat. 3973), the Secretary of the Air Force shall carry*  
20 *out the construction at Royal Air Force Molesworth, United*  
21 *Kingdom.*

22           (b) *FISCAL YEAR 2016 PROJECT AUTHORITY.*—*In the*  
23 *case of the authorization contained in the table in section*  
24 *2301(b) of the National Defense Authorization Act for Fis-*  
25 *cal Year 2016 (Public Law 114–92; 129 Stat. 1153), for*

1 *Royal Air Force Croughton, United Kingdom, for Phase 2*  
2 *of the Joint Intelligence Analysis Complex consolidation, as*  
3 *specified in the funding table in section 4601 of such Act*  
4 *(129 Stat. 1294), the Secretary of the Air Force may con-*  
5 *struct a 5,152-square meter Intelligence Analytic Center, a*  
6 *5,234-square meter Intelligence Fusion Center, and a 807-*  
7 *square meter Battlefield Information Collection and Exploi-*  
8 *tation System Center at Royal Air Force Molesworth,*  
9 *United Kingdom.*

10 (c) *FISCAL YEAR 2017 PROJECT AUTHORITY.—In the*  
11 *case of the authorization contained in the table in section*  
12 *2301(b) of the National Defense Authorization Act for Fis-*  
13 *cal Year 2017 (Public Law 114–328; 130 Stat. 2697), for*  
14 *Royal Air Force Croughton, United Kingdom, for Phase 3*  
15 *of the Joint Intelligence Analysis Complex consolidation, as*  
16 *specified in the funding table in section 4601 of such Act*  
17 *(130 Stat. 2878), the Secretary of the Air Force may con-*  
18 *struct a 1,562-square meter Regional Joint Intelligence*  
19 *Training Facility and a 4,495-square meter Combatant*  
20 *Command Intelligence Facility at Royal Air Force*  
21 *Molesworth, United Kingdom.*

22 (d) *CONFORMING REPEAL.—Section 2305 of the Na-*  
23 *tional Defense Authorization Act for Fiscal Year 2019 (Pub-*  
24 *lic Law 115–232; 132 Stat. 2247) is repealed.*

1 **SEC. 2306. MODIFICATION OF AUTHORITY TO CARRY OUT**  
2 **CERTAIN FISCAL YEAR 2016 PROJECT.**

3 *The table in section 2301(a) of the National Defense*  
4 *Authorization Act for Fiscal Year 2016 (Public Law 114–*  
5 *92; 129 Stat. 1152) is amended in the item relating to*  
6 *Nellis Air Force Base, Nevada, by striking “\$68,950,000”*  
7 *and inserting “\$72,050,000” for construction of F-35A Mu-*  
8 *nitions Maintenance Facilities, as specified in the funding*  
9 *table in section 4601 of such Act (129 Stat. 1293).*

10 **SEC. 2307. MODIFICATION OF AUTHORITY TO CARRY OUT**  
11 **CERTAIN FISCAL YEAR 2017 PROJECT.**

12 *The table in section 2301(a) of the National Defense*  
13 *Authorization Act for Fiscal Year 2017 (Public Law 114–*  
14 *328; 130 Stat. 2696) is amended in the item relating to*  
15 *Fairchild Air Force Base, Washington, by striking*  
16 *“\$27,000,000” and inserting “\$31,800,000” for construc-*  
17 *tion of a SERE School Pipeline Dormitory, as specified*  
18 *in the funding table in section 4601 of such Act (130 Stat.*  
19 *2878).*

20 **SEC. 2308. MODIFICATION OF AUTHORITY TO CARRY OUT**  
21 **CERTAIN FISCAL YEAR 2018 PROJECTS.**

22 *(a) LITTLE ROCK AIR FORCE BASE, ARKANSAS.—The*  
23 *table in section 2301(a) of the National Defense Authoriza-*  
24 *tion Act for Fiscal Year 2018 (Public Law 115–91; 131*  
25 *Stat. 1825) is amended in the item relating to Little Rock*  
26 *Air Force Base, Arkansas, by striking “\$20,000,000” and*

1 *inserting “\$27,000,000” for construction of a dormitory fa-*  
2 *cility, as specified in the funding table in section 4601 of*  
3 *such Act (131 Stat. 2002).*

4 (b) *JOINT BASE SAN ANTONIO, TEXAS.—In the case*  
5 *of the authorization contained in the table in section*  
6 *2301(a) of the National Defense Authorization Act for Fis-*  
7 *cal Year 2018 (Public Law 115–91; 131 Stat. 1826) for*  
8 *Joint Base San Antonio, Texas, the Secretary of the Air*  
9 *Force may construct—*

10 (1) *a 750-square meter equipment building for*  
11 *construction of a Classrooms/Dining Facility, as spec-*  
12 *ified in the funding table in section 4601 of such Act*  
13 *(131 Stat. 2003); and*

14 (2) *a 636-square meter air traffic control tower*  
15 *for construction of an Air Traffic Control Tower, as*  
16 *specified in the funding table in section 4601 of such*  
17 *Act (131 Stat. 2003).*

18 (c) *F.E. WARREN AIR FORCE BASE, WYOMING.—The*  
19 *table in section 2301(a) of the National Defense Authoriza-*  
20 *tion Act for Fiscal Year 2018 (Public Law 115–91; 131*  
21 *Stat. 1825) is amended in the item relating to F.E. Warren*  
22 *Air Force Base, Wyoming, by striking “\$62,000,000” and*  
23 *inserting “\$80,100,000” for construction of a Consolidated*  
24 *Helo/TRF Ops/AMU and Alert Facility, as specified in the*  
25 *funding table in section 4601 of such Act (131 Stat. 2004).*



1 *facility, as specified in the funding table in section 4601*  
2 *of such Act (132 Stat. 2405), the Secretary of the Air Force*  
3 *may construct a 1,000 kilowatt stand-by generator.*

4       **(b) MINOT AIR FORCE BASE, NORTH DAKOTA.**—*The*  
5 *table in section 2301(a) of the National Defense Authoriza-*  
6 *tion Act for Fiscal Year 2019 (Public Law 115–232; 132*  
7 *Stat. 2246) is amended in the item relating to Minot Air*  
8 *Force Base, North Dakota, by striking “\$66,000,000” and*  
9 *inserting “\$71,500,000” for construction of a Consolidated*  
10 *Helo/TRF Ops/AMU and Alert Facility, as specified in the*  
11 *funding table in section 4601 of such Act (132 Stat. 2405).*

12       **(c) ROYAL AIR FORCE LAKENHEATH, UNITED KING-**  
13 *DOM.*—*In the case of the authorization contained in the*  
14 *table in section 2301(b) of the National Defense Authoriza-*  
15 *tion Act for Fiscal Year 2019 (Public Law 115–232; 132*  
16 *Stat. 2247) for Royal Air Force Lakenheath, United King-*  
17 *dom, for the construction of an F–35A Dormitory, as speci-*  
18 *fied in the funding table in section 4601 of such Act (132*  
19 *Stat. 2405), the Secretary of the Air Force may construct*  
20 *a 5,900-square meter dormitory.*

1 **TITLE XXIV—DEFENSE AGEN-**  
 2 **CIES MILITARY CONSTRUC-**  
 3 **TION**

4 **SEC. 2401. AUTHORIZED DEFENSE AGENCIES CONSTRUC-**  
 5 **TION AND LAND ACQUISITION PROJECTS.**

6 (a) *INSIDE THE UNITED STATES.—Using amounts ap-*  
 7 *propriated pursuant to the authorization of appropriations*  
 8 *in section 2403(a) and available for military construction*  
 9 *projects inside the United States as specified in the funding*  
 10 *table in section 4601, the Secretary of Defense may acquire*  
 11 *real property and carry out military construction projects*  
 12 *for the installations or locations inside the United States,*  
 13 *and in the amounts, set forth in the following table:*

**Defense Agencies: Inside the United States**

<b>State</b>	<b>Installation or Location</b>	<b>Amount</b>
California .....	Beale Air Force Base .....	\$33,700,000
	Camp Pendleton .....	\$17,700,000
Florida .....	Eglin Air Force Base .....	\$16,500,000
	Hurlburt Field .....	\$108,386,000
	Naval Air Station Key West .....	\$16,000,000
Guam .....	Joint Region Marianas .....	\$19,200,000
Hawaii .....	Joint Base Pearl Harbor-Hickam .....	\$67,700,000
Maryland .....	Fort Detrick .....	\$27,846,000
Mississippi .....	Columbus Air Force Base .....	\$16,800,000
North Carolina .....	Camp Lejeune .....	\$13,400,000
	Fort Bragg .....	\$84,103,000
Oklahoma .....	Tulsa International Airport .....	\$18,900,000
Rhode Island .....	Quonset State Airport .....	\$11,600,000
South Carolina .....	Joint Base Charleston .....	\$33,300,000
South Dakota .....	Ellsworth Air Force Base .....	\$24,800,000
Virginia .....	Defense Distribution Depot Richmond .....	\$98,800,000
	Joint Expeditionary Base Little Creek - Fort Story .....	\$45,604,000
	Pentagon .....	\$28,802,000
	Training Center Dam Neck .....	\$12,770,000
	Joint Base Lewis-McChord .....	\$47,700,000
Washington .....	General Mitchell International Airport .....	\$25,900,000
Wisconsin .....	Classified Location .....	\$82,200,000
CONUS Classified .....		

14 (b) *OUTSIDE THE UNITED STATES.—Using amounts*  
 15 *appropriated pursuant to the authorization of appropria-*

1 tions in section 2403(a) and available for military con-  
 2 struction projects outside the United States as specified in  
 3 the funding table in section 4601, the Secretary of Defense  
 4 may acquire real property and carry out military construc-  
 5 tion projects for the installations or locations outside the  
 6 United States, and in the amounts, set forth in the following  
 7 table:

***Defense Agencies: Outside the United States***

<b>Country</b>	<b>Installation or Location</b>	<b>Amount</b>
<i>Germany</i> .....	<i>Geilenkirchen Air Base</i> .....	\$30,479,000
<i>Japan</i> .....	<i>Yokota Air Base</i> .....	\$136,411,000

8 **SEC. 2402. AUTHORIZED ENERGY RESILIENCY AND ENERGY**  
 9 **CONSERVATION PROJECTS.**

10 *Using amounts appropriated pursuant to the author-*  
 11 *ization of appropriations in section 2403(a), the Secretary*  
 12 *of Defense may carry out energy resiliency and energy con-*  
 13 *servation projects under chapter 173 of title 10, United*  
 14 *States Code, as specified in the funding table in section*  
 15 *4601.*

16 **SEC. 2403. AUTHORIZATION OF APPROPRIATIONS, DEFENSE**  
 17 **AGENCIES.**

18 *(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are*  
 19 *hereby authorized to be appropriated for fiscal years begin-*  
 20 *ning after September 30, 2019, for military construction,*  
 21 *land acquisition, and military family housing functions of*  
 22 *the Department of Defense (other than the military depart-*  
 23 *ments), as specified in the funding table in section 4601.*

1       (b) *LIMITATION ON TOTAL COST OF CONSTRUCTION*  
2 *PROJECTS.*—*Notwithstanding the cost variations author-*  
3 *ized by section 2853 of title 10, United States Code, and*  
4 *any other cost variation authorized by law, the total cost*  
5 *of all projects carried out under section 2401 of this Act*  
6 *may not exceed the total amount authorized to be appro-*  
7 *priated under subsection (a), as specified in the funding*  
8 *table in section 4601.*

9       ***TITLE XXV—INTERNATIONAL***  
10                   ***PROGRAMS***

11       ***Subtitle A—North Atlantic Treaty***  
12                   ***Organization Security Invest-***  
13                   ***ment Program***

14       ***SEC. 2501. AUTHORIZED NATO CONSTRUCTION AND LAND***  
15                   ***ACQUISITION PROJECTS.***

16       *The Secretary of Defense may make contributions for*  
17 *the North Atlantic Treaty Organization Security Invest-*  
18 *ment Program as provided in section 2806 of title 10,*  
19 *United States Code, in an amount not to exceed the sum*  
20 *of the amount authorized to be appropriated for this pur-*  
21 *pose in section 2502 and the amount collected from the*  
22 *North Atlantic Treaty Organization as a result of construc-*  
23 *tion previously financed by the United States.*



1 tions or locations in the Republic of Korea, and in the  
 2 amounts, set forth in the following table:

**Republic of Korea Funded Construction Projects**

<b>Component</b>	<b>Installation or Location</b>	<b>Project</b>	<b>Amount</b>
Army .....	Camp Carroll .....	Army Prepositioned Stock-4 Wheeled Vehicle Maintenance Facility .....	\$51,000,000
Army .....	Camp Humphreys	Unaccompanied Enlisted Personnel Housing, P1 .....	\$154,000,000
Army .....	Camp Humphreys	Unaccompanied Enlisted Personnel Housing, P2 .....	\$211,000,000
Army .....	Camp Humphreys	Satellite Communications Facility ..	\$32,000,000
Air Force ....	Gwangju Air Base .....	Hydrant Fuel System .....	\$35,000,000
Air Force ....	Kunsan Air Base	Upgrade Electrical Distribution System .....	\$14,200,000
Air Force ....	Kunsan Air Base	Dining Facility .....	\$21,000,000
Air Force ....	Suwon Air Base	Hydrant Fuel System .....	\$24,000,000

3 **TITLE XXVI—GUARD AND**  
 4 **RESERVE FORCES FACILITIES**

5 **SEC. 2601. AUTHORIZED ARMY NATIONAL GUARD CON-**  
 6 **STRUCTION AND LAND ACQUISITION**  
 7 **PROJECTS.**

8 *Using amounts appropriated pursuant to the author-*  
 9 *ization of appropriations in section 2606 and available for*  
 10 *the National Guard and Reserve as specified in the funding*  
 11 *table in section 4601, the Secretary of the Army may ac-*  
 12 *quire real property and carry out military construction*  
 13 *projects for the Army National Guard locations inside the*  
 14 *United States, and in the amounts, set forth in the following*  
 15 *table:*

**Army National Guard**

<b>State</b>	<b>Location</b>	<b>Amount</b>
Alabama .....	Anniston Army Depot .....	\$34,000,000
	Foley .....	\$12,000,000
California .....	Camp Roberts .....	\$12,000,000

*Army National Guard—Continued*

<i>State</i>	<i>Location</i>	<i>Amount</i>
<i>Idaho</i> .....	<i>Orchard Combat Training Center</i> .....	\$29,000,000
<i>Maryland</i> .....	<i>Havre De Grace</i> .....	\$12,000,000
<i>Massachusetts</i> .....	<i>Camp Edwards</i> .....	\$9,700,000
<i>Minnesota</i> .....	<i>New Utm</i> .....	\$11,200,000
<i>Mississippi</i> .....	<i>Camp Shelby</i> .....	\$8,100,000
<i>Missouri</i> .....	<i>Springfield</i> .....	\$12,000,000
<i>Nebraska</i> .....	<i>Bellevue</i> .....	\$29,000,000
<i>New Hampshire</i> .....	<i>Concord</i> .....	\$5,950,000
<i>New York</i> .....	<i>Jamaica Armory</i> .....	\$91,000,000
<i>Pennsylvania</i> .....	<i>Moon Township</i> .....	\$23,000,000
<i>Vermont</i> .....	<i>Jericho</i> .....	\$30,000,000
<i>Washington</i> .....	<i>Richland</i> .....	\$11,400,000

1 **SEC. 2602. AUTHORIZED ARMY RESERVE CONSTRUCTION**  
2 **AND LAND ACQUISITION PROJECTS.**

3 *Using amounts appropriated pursuant to the author-*  
4 *ization of appropriations in section 2606 and available for*  
5 *the National Guard and Reserve as specified in the funding*  
6 *table in section 4601, the Secretary of the Army may ac-*  
7 *quire real property and carry out military construction*  
8 *projects for the Army Reserve locations inside the United*  
9 *States, and in the amounts, set forth in the following table:*

*Army Reserve*

<i>State</i>	<i>Location</i>	<i>Amount</i>
<i>Delaware</i> .....	<i>Newark Army Reserve Center</i> .....	\$21,000,000
<i>Wisconsin</i> .....	<i>Fort McCoy</i> .....	\$25,000,000

10 **SEC. 2603. AUTHORIZED NAVY RESERVE AND MARINE**  
11 **CORPS RESERVE CONSTRUCTION AND LAND**  
12 **ACQUISITION PROJECTS.**

13 *Using amounts appropriated pursuant to the author-*  
14 *ization of appropriations in section 2606 and available for*  
15 *the National Guard and Reserve as specified in the funding*  
16 *table in section 4601, the Secretary of the Navy may ac-*

1 *quire real property and carry out military construction*  
 2 *projects for the Navy Reserve and Marine Corps Reserve*  
 3 *locations inside the United States, and in the amounts, set*  
 4 *forth in the following table:*

***Navy Reserve and Marine Corps Reserve***

<b><i>State</i></b>	<b><i>Location</i></b>	<b><i>Amount</i></b>
<i>Louisiana .....</i>	<i>New Orleans .....</i>	<i>\$25,260,000</i>

5 ***SEC. 2604. AUTHORIZED AIR NATIONAL GUARD CONSTRUC-***  
 6 ***TION AND LAND ACQUISITION PROJECTS.***

7 *Using amounts appropriated pursuant to the author-*  
 8 *ization of appropriations in section 2606 and available for*  
 9 *the National Guard and Reserve as specified in the funding*  
 10 *table in section 4601, the Secretary of the Air Force may*  
 11 *acquire real property and carry out military construction*  
 12 *projects for the Air National Guard locations inside the*  
 13 *United States, and in the amounts, set forth in the following*  
 14 *table:*

***Air National Guard***

<b><i>State</i></b>	<b><i>Location</i></b>	<b><i>Amount</i></b>
<i>California .....</i>	<i>Moffett Air National Guard Base .....</i>	<i>\$57,000,000</i>
<i>Georgia .....</i>	<i>Savannah/Hilton Head International Airport .....</i>	<i>\$24,000,000</i>
<i>Missouri .....</i>	<i>Rosecrans Memorial Airport .....</i>	<i>\$9,500,000</i>
<i>Puerto Rico .....</i>	<i>Luis Munoz-Marin International Airport .....</i>	<i>\$50,000,000</i>
<i>Wisconsin .....</i>	<i>Truax Field .....</i>	<i>\$34,000,000</i>

15 ***SEC. 2605. AUTHORIZED AIR FORCE RESERVE CONSTRUC-***  
 16 ***TION AND LAND ACQUISITION PROJECTS.***

17 *Using amounts appropriated pursuant to the author-*  
 18 *ization of appropriations in section 2606 and available for*  
 19 *the National Guard and Reserve as specified in the funding*

1 *table in section 4601, the Secretary of the Air Force may*  
 2 *acquire real property and carry out military construction*  
 3 *projects for the Air Force Reserve locations inside the*  
 4 *United States, and in the amounts, set forth in the following*  
 5 *table:*

***Air Force Reserve***

<b><i>State</i></b>	<b><i>Location</i></b>	<b><i>Amount</i></b>
<i>Georgia</i> .....	<i>Robins Air Force Base</i> .....	<i>\$43,000,000</i>
<i>Maryland</i> .....	<i>Joint Base Andrews</i> .....	<i>\$15,000,000</i>
<i>Minnesota</i> .....	<i>Minneapolis-St. Paul IAP</i> .....	<i>\$9,800,000</i>

6 **SEC. 2606. AUTHORIZATION OF APPROPRIATIONS, NA-**  
 7 **TIONAL GUARD AND RESERVE.**

8 *Funds are hereby authorized to be appropriated for fis-*  
 9 *cal years beginning after September 30, 2019, for the costs*  
 10 *of acquisition, architectural and engineering services, and*  
 11 *construction of facilities for the Guard and Reserve Forces,*  
 12 *and for contributions therefor, under chapter 1803 of title*  
 13 *10, United States Code (including the cost of acquisition*  
 14 *of land for those facilities), as specified in the funding table*  
 15 *in section 4601.*

1 **TITLE XXVII—BASE REALIGN-**  
2 **MENT AND CLOSURE ACTIVI-**  
3 **TIES**

4 **SEC. 2701. AUTHORIZATION OF APPROPRIATIONS FOR BASE**  
5 **REALIGNMENT AND CLOSURE ACTIVITIES**  
6 **FUNDED THROUGH DEPARTMENT OF DE-**  
7 **FENSE BASE CLOSURE ACCOUNT.**

8 *Funds are hereby authorized to be appropriated for fis-*  
9 *cal years beginning after September 30, 2019, for base re-*  
10 *alignment and closure activities, including real property*  
11 *acquisition and military construction projects, as author-*  
12 *ized by the Defense Base Closure and Realignment Act of*  
13 *1990 (part A of title XXIX of Public Law 101–510; 10*  
14 *U.S.C. 2687 note) and funded through the Department of*  
15 *Defense Base Closure Account established by section 2906*  
16 *of such Act (as amended by section 2711 of the Military*  
17 *Construction Authorization Act for Fiscal Year 2013 (divi-*  
18 *sion B of Public Law 112–239; 126 Stat. 2140)), as speci-*  
19 *fied in the funding table in section 4601.*

1 **TITLE XXVIII—MILITARY CON-**  
2 **STRUCTION GENERAL PROVI-**  
3 **SIONS**

4 **Subtitle A—Military Construction**  
5 **Program Changes**

6 **SEC. 2801. PROHIBITION ON USE OF MILITARY CONSTRUC-**  
7 **TION FUNDS FOR CONSTRUCTION OF A WALL,**  
8 **FENCE, OR OTHER PHYSICAL BARRIER ALONG**  
9 **THE SOUTHERN BORDER OF THE UNITED**  
10 **STATES.**

11 *(a) PROHIBITION.—Military construction funds may*  
12 *not be obligated, expended, or otherwise used to design or*  
13 *carry out a project to construct, replace, or modify a wall,*  
14 *fence, or other physical barrier along the international bor-*  
15 *der between the United States and Mexico.*

16 *(b) DEFINITIONS.—In this section:*

17 *(1) MILITARY CONSTRUCTION FUNDS.—The term*  
18 *“military construction funds” means—*

19 *(A) amounts authorized to be appropriated*  
20 *for a military construction project authorized in*  
21 *this division or authorized in any Military Con-*  
22 *struction Authorization Act for any of fiscal*  
23 *years 2015 through 2019, including any*  
24 *amounts of such an authorization made avail-*  
25 *able to the Department of Defense and trans-*

1           *ferred to another authorization by the Secretary*  
2           *of Defense pursuant to transfer authority avail-*  
3           *able to the Secretary; and*

4                     *(B) funds appropriated in any Act for a*  
5           *military construction project described in sub-*  
6           *paragraph (A).*

7           (2) *MILITARY CONSTRUCTION PROJECT.—The*  
8           *term “military construction project” has the meaning*  
9           *given that term in section 2801 of title 10, United*  
10          *States Code.*

11 **SEC. 2802. MODIFICATION AND CLARIFICATION OF CON-**  
12                     **STRUCTION AUTHORITY IN THE EVENT OF A**  
13                     **DECLARATION OF WAR OR NATIONAL EMER-**  
14                     **GENCY.**

15          (a) *LIMITATION ON AMOUNT OF FUNDS AVAILABLE*  
16 *FOR NATIONAL EMERGENCY.—Section 2808 of title 10,*  
17 *United States Code, is amended—*

18                     (1) *by redesignating subsections (b) and (c) as*  
19           *subsections (e) and (f), respectively; and*

20                     (2) *by inserting after subsection (a) the following*  
21           *new subsection:*

22           “(c) *LIMITATION ON AMOUNT OF FUNDS AVAILABLE*  
23 *FOR NATIONAL EMERGENCY.—(1) Except as provided in*  
24 *paragraph (2), in the event of a declaration by the Presi-*  
25 *dent of a national emergency in which the construction au-*

1 *thority described in subsection (a) is used, the total cost*  
2 *of all military construction projects undertaken using that*  
3 *authority during the national emergency may not exceed*  
4 *\$500,000,000.*

5       “(2) *In the event of a national emergency declaration*  
6 *in which the construction authority described in subsection*  
7 *(a) will be used only within the United States, the total*  
8 *cost of all military construction projects undertaken using*  
9 *that authority during the national emergency may not ex-*  
10 *ceed \$100,000,000.”.*

11       ***(b) ADDITIONAL CONDITION ON SOURCE OF FUNDS.—***  
12 *Section 2808(a) of title 10, United States Code, is amend-*  
13 *ed—*

14               ***(1) in the second sentence—***

15                       ***(A) by striking “Such projects may” and***  
16                       ***inserting the following:***

17       ***“(b) CONDITIONS ON SOURCE OF FUNDS.—(1) Mili-***  
18 *tary construction projects to be undertaken using the con-*  
19 *struction authority described in subsection (a) may”;* and

20                       ***(B) by inserting before the period at the end***  
21 *of the sentence the following: “and that the Sec-*  
22 *retary of Defense determines are otherwise*  
23 *unexecutable”;* and

24                       ***(2) by adding after the second sentence the fol-***  
25 *lowing:*

1           “(2) For purposes of paragraph (1), the Secretary may  
2 determine that funds appropriated for military construc-  
3 tion are unexecutable if—

4           “(A) a military construction project for which  
5 the funds were appropriated has been cancelled, for a  
6 reason other than to provide funds to carry out mili-  
7 tary construction under this section; or

8           “(B) the cost of a military construction project  
9 for which the funds were appropriated has been re-  
10 duced because of project modifications or other cost  
11 savings, for a reason other than to provide funds to  
12 carry out military construction under this section.”.

13           (c) *WAIVER OF OTHER PROVISIONS OF LAW.*—Section  
14 2808 of title 10, United States Code, is amended by insert-  
15 ing after subsection (c), as added by subsection (a), the fol-  
16 lowing new subsection:

17           “(d) *WAIVER OF OTHER PROVISIONS OF LAW IN*  
18 *EVENT OF NATIONAL EMERGENCY.*—In the event of a dec-  
19 laration by the President of a national emergency in which  
20 the construction authority described in subsection (a) is  
21 used, the authority provided by such subsection to waive  
22 or disregard another provision of law that would otherwise  
23 apply to a military construction project authorized by this  
24 section may be used only if—

1           “(1) such other provision of law does not provide  
2           a means by which compliance with the requirements  
3           of the law may be waived, modified, or expedited; and

4           “(2) the Secretary of Defense determines that the  
5           nature of the national emergency necessitates the non-  
6           compliance with the requirements of the law.”.

7           (d) *ADDITIONAL NOTIFICATION REQUIREMENTS.*—  
8           Subsection (e) of section 2808 of title 10, United States  
9           Code, as redesignated by subsection (a)(1), is amended—

10           (1) by striking “of the decision” and all that fol-  
11           lows through the end of the subsection and inserting  
12           the following: “of the following:

13           “(A) The reasons for the decision to use the con-  
14           struction authority described in subsection (a), in-  
15           cluding, in the event of a declaration by the President  
16           of a national emergency, the reasons why use of the  
17           armed forces is required in response to the declared  
18           national emergency.

19           “(B) The construction projects to be undertaken  
20           using the construction authority described in sub-  
21           section (a), including, in the event of a declaration by  
22           the President of a national emergency, an expla-  
23           nation of how each construction project directly sup-  
24           ports the immediate security, logistical, or short-term  
25           housing and ancillary supporting facility needs of the

1 *members of the armed forces used in the national*  
2 *emergency.*

3 *“(C) The estimated cost of the construction*  
4 *projects to be undertaken using the construction au-*  
5 *thority described in subsection (a), including the cost*  
6 *of any real estate action pertaining to the construc-*  
7 *tion projects, and certification of compliance with the*  
8 *funding conditions imposed by subsections (b) and*  
9 *(c).*

10 *“(D) Any determination made pursuant to sub-*  
11 *section (d)(2) to waive or disregard another provision*  
12 *of law to undertake any construction project using the*  
13 *construction authority described in subsection (a).*

14 *“(E) The military construction projects, includ-*  
15 *ing any military family housing and ancillary sup-*  
16 *porting facility projects, to be canceled or deferred in*  
17 *order to provide funds to undertake construction*  
18 *projects using the construction authority described in*  
19 *subsection (a) and the possible impact of the cancella-*  
20 *tion or deferment of such military construction*  
21 *projects on military readiness and the quality of life*  
22 *of members of the armed forces and their depend-*  
23 *ents.”; and*

24 *(2) by adding at the end the following new para-*  
25 *graph:*

1       “(2) *In the event of a declaration by the President of*  
 2 *a national emergency in which the construction authority*  
 3 *described in subsection (a) is used, a construction project*  
 4 *to be undertaken using such construction authority may be*  
 5 *carried out only after the end of the five-day period begin-*  
 6 *ning on the date the notification required by paragraph (1)*  
 7 *is received by the appropriate committees of Congress.”.*

8       (e) *CLERICAL AMENDMENTS.—Section 2808 of title 10,*  
 9 *United States Code, is further amended—*

10           (1) *in subsection (a), by inserting “CONSTRUC-*  
 11 *TION AUTHORIZED.—” after “(a)”;*

12           (2) *in subsection (e), as redesignated by sub-*  
 13 *section (a)(1), by inserting “NOTIFICATION REQUIRE-*  
 14 *MENT.—(1)” after “(e)”;* and

15           (3) *in subsection (f), as redesignated by sub-*  
 16 *section (a)(1), by inserting “TERMINATION OF AU-*  
 17 *THORITY.—” after “(f)”.*

18 **SEC. 2803. INCLUSION OF INFORMATION REGARDING MILI-**  
 19 **TARY INSTALLATION RESILIENCE IN MASTER**  
 20 **PLANS FOR MAJOR MILITARY INSTALLA-**  
 21 **TIONS.**

22       (a) *MILITARY INSTALLATION RESILIENCE.—Section*  
 23 *2864 of title 10, United States Code, is amended—*

24           (1) *in subsection (a)(1), by inserting “military*  
 25 *installation resilience,” after “master planning,”;*

1           (2) *by redesignating subsections (c) and (d) as*  
2           *subsections (e) and (f), respectively; and*

3           (3) *by inserting after subsection (b) the following*  
4           *new subsection:*

5           “(c) *MILITARY INSTALLATION RESILIENCE COMPO-*  
6           *NENT.—To address military installation resilience under*  
7           *subsection (a)(1), each installation master plan shall dis-*  
8           *cuss the following:*

9           “(1) *Risks and threats to military installation*  
10           *resilience that exist at the time of the development of*  
11           *the plan and that are projected for the future, includ-*  
12           *ing from extreme weather events, mean sea level fluctu-*  
13           *ation, wildfires, flooding, and other changes in en-*  
14           *vironmental conditions.*

15           “(2) *Assets or infrastructure located on the mili-*  
16           *tary installation vulnerable to the risks and threats*  
17           *described in paragraph (1), with a special emphasis*  
18           *on assets or infrastructure critical to the mission of*  
19           *the installation and the mission of members of the*  
20           *armed forces.*

21           “(3) *Lessons learned from the impacts of extreme*  
22           *weather events, including changes made to the mili-*  
23           *tary installation to address such impacts, since the*  
24           *prior master plan developed under this section.*

1           “(4) Ongoing or planned infrastructure projects  
2           or other measures, as of the time of the development  
3           of the plan, to mitigate the impacts of the risks and  
4           threats described in paragraph (1).

5           “(5) Community infrastructure and resources lo-  
6           cated outside the installation (such as medical facili-  
7           ties, transportation systems, and energy infrastruc-  
8           ture) that are—

9                   “(A) necessary to maintain mission capa-  
10                  bility or that impact the resilience of the mili-  
11                  tary installation; and

12                  “(B) vulnerable to the risks and threats de-  
13                  scribed in paragraph (1).

14           “(6) Agreements in effect or planned, as of the  
15           time of the development of the plan, with public or  
16           private entities for the purpose of maintaining or en-  
17           hancing military installation resilience or resilience  
18           of the community infrastructure and resources de-  
19           scribed in paragraph (5).

20           “(7) Projections from recognized governmental  
21           and scientific entities such as the Census Bureau, the  
22           National Academies of Sciences, the United States Ge-  
23           ological Survey, and the United States Global Change  
24           Research Office (or any similar successor entities)  
25           with respect to future risks and threats (including the

1 *risks and threats described in paragraph (1)) to the*  
2 *resilience of any project considered in the installation*  
3 *master plan during the 50-year lifespan of the instal-*  
4 *lation.”.*

5 *(b) REPORT ON MASTER PLANS.—Section 2864 of title*  
6 *10, United States Code, is amended by inserting after sub-*  
7 *section (c), as added by subsection (a), the following new*  
8 *subsection:*

9 *“(d) REPORT.—Not later than March 1 of each year,*  
10 *the Secretary of Defense shall submit to the congressional*  
11 *defense committees a report listing all master plans com-*  
12 *pleted pursuant to this section in the prior calendar year.”.*

13 **SEC. 2804. IMPROVED CONSULTATION WITH TRIBAL GOV-**  
14 **ERNMENTS WHEN PROPOSED MILITARY CON-**  
15 **STRUCTION PROJECTS POTENTIALLY IMPACT**  
16 **INDIAN TRIBES.**

17 *Section 2802 of title 10, United States Code, is amend-*  
18 *ed by adding at the end the following new subsection:*

19 *“(f)(1) If a proposed military construction project has*  
20 *the potential to significantly affect tribal lands, sacred sites,*  
21 *or tribal treaty rights, the Secretary concerned shall initiate*  
22 *consultation with the tribal government of each impacted*  
23 *Indian tribe—*

24 *“(A) to determine the nature, extent, and esti-*  
25 *mated costs of the adverse impacts;*

1           “(B) to determine whether the adverse impacts  
2           can be avoided or mitigated in the design and imple-  
3           mentation of the project; and

4           “(C) if the adverse impacts cannot be avoided, to  
5           develop feasible measures to mitigate the impacts and  
6           estimate the cost of the mitigation measures.

7           “(2) As part of the Department of Defense Form 1391  
8           submitted to the appropriate committees of Congress for a  
9           military construction project covered by paragraph (1), the  
10          Secretary concerned shall include a description of the cur-  
11          rent status of the consultation conducted under such para-  
12          graph and specifically address each of the items specified  
13          in subparagraphs (A), (B), and (C) of such paragraph.

14          “(3) In this subsection:

15                 “(A) The term ‘Indian tribe’ has the meaning  
16                 given that term in section 4 of the Indian Self-Deter-  
17                 mination and Education Assistance Act (25 U.S.C.  
18                 5304).

19                 “(B) The term ‘tribal government’ means the rec-  
20                 ognized governing body of an Indian tribe.

21                 “(C) The term ‘sacred site’ has the meaning  
22                 given that term in Executive Order 13007, as in effect  
23                 on the date of the enactment of the National Defense  
24                 Authorization Act for Fiscal Year 2020.”.

1 **SEC. 2805. AMENDMENT OF UNIFIED FACILITIES CRITERIA**  
2 **TO PROMOTE MILITARY INSTALLATION RE-**  
3 **SILIENCE, ENERGY RESILIENCE, ENERGY AND**  
4 **CLIMATE RESILIENCY, AND CYBER RESIL-**  
5 **IENCE.**

6 (a) *AMENDMENT REQUIRED.*—Not later than Sep-  
7 tember 1, 2020, the Secretary of Defense shall amend the  
8 Unified Facility Criteria related to military construction  
9 planning and design to ensure that building practices and  
10 standards promote military installation resilience, energy  
11 resilience, energy and climate resiliency, and cyber resil-  
12 ience.

13 (b) *CONDITIONAL AVAILABILITY OF FUNDS PENDING*  
14 *INITIATION OF AMENDMENT PROCESS.*—Not more than 25  
15 percent of the funds authorized to be appropriated for fiscal  
16 year 2020 for Department of Defense planning and design  
17 accounts related to military construction projects may be  
18 obligated until the date on which the Secretary of Defense  
19 submits to the Committees on Armed Services of the House  
20 of Representatives and the Senate a certification that the  
21 Secretary has initiated the process to amend the Unified  
22 Facility Criteria to comply with the requirements of sub-  
23 section (a) and intends to complete the amendment process  
24 by the date specified in such subsection.

25 (c) *IMPLEMENTATION OF UNIFIED FACILITIES CRI-*  
26 *TERIA AMENDMENT.*—

1           (1) *IMPLEMENTATION.*—*Any Department of De-*  
2 *fense Form 1391 submitted to Congress after the date*  
3 *specified in subsection (a) must be in compliance*  
4 *with the Unified Facility Criteria, amended as re-*  
5 *quired by subsection (a).*

6           (2) *CERTIFICATION.*—*Not later than March 1,*  
7 *2021, the Secretary of Defense shall certify to the*  
8 *Committees on Armed Services of the House of Rep-*  
9 *resentatives and the Senate that the amendment re-*  
10 *quired by subsection (a) and the amendment required*  
11 *by section 2805(c) of the Military Construction Au-*  
12 *thorization Act for Fiscal Year 2019 (division B of*  
13 *Public Law 115–232; 132 Stat. 2262; 10 U.S.C. 2864*  
14 *note) have been completed and fully incorporated into*  
15 *military construction planning and design.*

16          (d) *ANNUAL REVIEW.*—*Beginning with fiscal year*  
17 *2022, and annually thereafter, the Secretary of Defense*  
18 *shall conduct a review comparing the Unified Facility Cri-*  
19 *teria and industry best practices to ensure that military*  
20 *construction building practices and standards related to*  
21 *military installation resilience, energy resilience, energy*  
22 *and climate resiliency, and cyber resilience remain current.*

23          (e) *DEFINITIONS.*—*In this section:*

24           (1) *The terms “energy resilience” and “military*  
25 *installation resilience” have the meanings given those*

1        *terms in section 101(e) of title 10, United States*  
2        *Code.*

3            (2) *The term “energy and climate resiliency” has*  
4        *the meaning given that term in section 2864 of title*  
5        *10, United States Code.*

6        **SEC. 2806. MODIFICATION TO DEPARTMENT OF DEFENSE**  
7                            **FORM 1391 REGARDING CONSIDERATION OF**  
8                            **POTENTIAL LONG-TERM ADVERSE ENVIRON-**  
9                            **MENTAL EFFECTS.**

10        (a) *MODIFICATION.—*

11            (1) *CERTIFICATION REQUIREMENT.—The Sec-*  
12        *retary of Defense shall modify Department of Defense*  
13        *Form 1391 to require, with respect to any proposed*  
14        *major or minor military construction project requir-*  
15        *ing congressional notification or approval, the inclu-*  
16        *sion of a certification by the Secretary of Defense or*  
17        *the Secretary of the military department concerned*  
18        *that the proposed military construction project takes*  
19        *into consideration—*

20            (A) *the potential adverse consequences of*  
21        *long-term changes in environmental conditions,*  
22        *such as increasingly frequent extreme weather*  
23        *events, that could affect the military installation*  
24        *resilience of the installation for which the mili-*  
25        *tary construction project is proposed; and*

1           *(B) building requirements in effect for the*  
2           *locality in which the military construction*  
3           *project is proposed and industry best practices*  
4           *that are developed to withstand extreme weather*  
5           *events and other consequences of changes in envi-*  
6           *ronmental conditions.*

7           (2) *ELEMENTS OF CERTIFICATION.*—*As part of*  
8           *the certification required by paragraph (1) for a pro-*  
9           *posed military construction project, the Secretary*  
10          *concerned shall identify the potential changes in envi-*  
11          *ronmental conditions, such as increasingly frequent*  
12          *extreme weather events, considered and addressed*  
13          *under subparagraphs (A) and (B) of paragraph (1).*

14          (b) *RELATION TO RECENT MODIFICATION REQUIRE-*  
15          *MENT.*—*The modification of Department of Defense Form*  
16          *1391 required by subsection (a) is in addition to, and ex-*  
17          *pands upon, the modification of Department of Defense*  
18          *Form 1391 with respect to flood risk disclosure for military*  
19          *construction required by section 2805(a) of the Military*  
20          *Construction Authorization Act for Fiscal Year 2019 (divi-*  
21          *sion B of Public Law 115–232; 132 Stat. 2262; 10 U.S.C.*  
22          *2802 note).*

23          (c) *MILITARY INSTALLATION RESILIENCE DEFINED.*—  
24          *In this section, the term “military installation resilience”*

1 *has the meaning given that term in section 101(e)(8) of title*  
2 *10, United States Code.*

3           ***Subtitle B—Military Family***  
4                   ***Housing Reforms***

5 ***SEC. 2811. ENHANCED PROTECTIONS FOR MEMBERS OF***  
6                   ***THE ARMED FORCES AND THEIR DEPEND-***  
7                   ***ENTS RESIDING IN PRIVATIZED MILITARY***  
8                   ***HOUSING UNITS.***

9           *(a) SPECIFIED RIGHTS OF TENANCY IN PRIVATIZED*  
10 *MILITARY HOUSING UNITS.—*

11                   *(1) IN GENERAL.—Section 2886 of title 10,*  
12                   *United States Code, is amended to read as follows:*

13 ***“§2886. Specified rights of tenancy in military hous-***  
14                   ***ing units***

15                   *“(a) CONTRACT REQUIREMENT FOR MILITARY HOUS-*  
16 *ING UNITS.—*

17                   *“(1) INCLUSION OF RIGHTS OF TENANCY.—Each*  
18                   *contract between the Secretary concerned and a land-*  
19                   *lord shall guarantee the rights of tenancy specified in*  
20                   *this section for military tenants who reside in mili-*  
21                   *tary housing units covered by the contract.*

22                   *“(2) RULE OF CONSTRUCTION.—The rights of*  
23                   *tenancy in military housing units specified in this*  
24                   *section are not intended to be exclusive. The omission*  
25                   *of a tenant right or protection shall not be construed*

1 *to deny the existence of such a right or protection for*  
2 *military tenants.*

3 “(3) *WRITTEN LEASE AND EXPLANATION OF TEN-*  
4 *ANCY.—(A) The lease between a landlord and mili-*  
5 *tary tenant shall be in writing to establish tenancy*  
6 *in a military housing unit. The landlord shall pro-*  
7 *vide the military tenant with a copy of the lease, any*  
8 *addendums, and any other regulations imposed by the*  
9 *landlord regarding occupancy of the military housing*  
10 *unit and use of common areas.*

11 “(B) *The Secretary concerned shall require that*  
12 *a military tenant receive a plain-language briefing*  
13 *regarding the rights of tenancy guaranteed by this*  
14 *section and the respective responsibilities of landlords*  
15 *and military tenants related to tenancy, including the*  
16 *existence of any additional fees authorized by sub-*  
17 *section (c)(2), any utilities payments, the procedures*  
18 *for submitting and tracking work orders, the identity*  
19 *of the military tenant advocate, and the dispute reso-*  
20 *lution process.*

21 “(b) *PROTECTION AGAINST RETALIATION.—*

22 “(1) *IN GENERAL.—A landlord may not retaliate*  
23 *against a military tenant, directly or through the*  
24 *chain-of-command of a member of the armed forces*  
25 *who is a military tenant, in response to a military*

1        *tenant making a complaint relating to a military*  
2        *housing unit or common areas. Evidence of retali-*  
3        *ation may include any of the following actions, includ-*  
4        *ing unsuccessful attempts to commit such an action:*

5                *“(A) Unlawful recovery of, or attempt to re-*  
6                *cover, possession of a military housing unit.*

7                *“(B) Unlawfully increasing the rent, de-*  
8                *creasing services, or increasing the obligations of*  
9                *a military tenant.*

10               *“(C) Interference with a military tenant’s*  
11               *right to privacy.*

12               *“(D) Harassment of a military tenant.*

13               *“(E) Refusal to honor the terms of the lease.*

14               *“(F) Interference with the career of a mili-*  
15               *tary tenant.*

16               *“(2) INVESTIGATION.—The Inspector General of*  
17               *the Department of Defense and the Inspector General*  
18               *of a military department may investigate allegations*  
19               *of retaliation against a military tenant in connection*  
20               *with a complaint relating to a military housing unit.*

21               *“(c) PROHIBITION AGAINST COLLECTION OF AMOUNTS*  
22 *IN ADDITION TO RENT.—*

23               *“(1) IN GENERAL.—A landlord may not impose*  
24               *on a military tenant a supplemental payment, such*  
25               *as an out-of-pocket fee, in addition to the amount of*

1       *rent the landlord charges for a unit of similar size*  
2       *and composition to the military housing unit, with-*  
3       *out regard to whether or not the amount of the mem-*  
4       *ber's basic allowance for housing under section 403 of*  
5       *title 37 is less than the amount of the rent.*

6               “(2) *EXCEPTIONS.*—*Nothing in paragraph (1)*  
7       *shall be construed—*

8                       “(A) *to prohibit a landlord from imposing*  
9       *an additional payment—*

10                               “(i) *for optional services provided to*  
11       *military tenants, such as access to a gym or*  
12       *a parking space;*

13                               “(ii) *for non-essential utility services,*  
14       *as determined in accordance with regula-*  
15       *tions promulgated by the Secretary con-*  
16       *cerned; or*

17                               “(iii) *to recover damages associated*  
18       *with tenant negligence; or*

19                       “(B) *to limit or otherwise affect the author-*  
20       *ity of the Secretary concerned to enter into rent-*  
21       *al guarantee agreements under section 2876 of*  
22       *this title or to make differential lease payments*  
23       *under section 2877 of this title, so long as such*  
24       *agreements or payments do not require a mili-*  
25       *tary tenant to pay an out-of-pocket fee or pay-*

1           *ment in addition to the basic allowance for hous-*  
2           *ing of the member.*

3           “(d) *DISPUTE RESOLUTION PROCESS.*—

4           “(1) *ESTABLISHMENT.*—*The Secretary concerned*  
5           *shall establish a dispute resolution process for the res-*  
6           *olution of disputes between landlords and military*  
7           *tenants related to military housing units. The resolu-*  
8           *tion process shall use neutral arbitrators and mini-*  
9           *mize costs incurred by military tenants to partici-*  
10          *pate.*

11          “(2) *TREATMENT OF BASIC ALLOWANCE FOR*  
12          *HOUSING.*—*During the dispute resolution process be-*  
13          *tween a landlord and military tenant, the Secretary*  
14          *concerned may withhold from the landlord amounts of*  
15          *the military tenant’s basic allowance for housing*  
16          *under section 403 of title 37 that otherwise would be*  
17          *paid to the landlord directly by the military tenant*  
18          *or through allotments of the pay of the military ten-*  
19          *ant under section 701 of such title.*

20          “(e) *PROMPT MAINTENANCE AND REPAIRS.*—

21          “(1) *IN GENERAL.*—*The Secretary concerned*  
22          *shall ensure that landlords—*

23                  “(A) *respond promptly to requests for the*  
24                  *maintenance or repair of a military housing*  
25                  *unit; and*

1           “(B) *communicate effectively with military*  
2           *tenants regarding the schedule and status of*  
3           *maintenance or repair requests.*

4           “(2) *ELECTRONIC WORK ORDER SYSTEM.—To*  
5           *promote the policy objective described in paragraph*  
6           *(1), the Secretary concerned shall require the estab-*  
7           *lishment of an electronic work order system through*  
8           *which a military tenant may request maintenance or*  
9           *repairs of a military housing unit and track the*  
10          *progress of the work.*

11          “(3) *ACCESS TO SYSTEM.—The electronic work*  
12          *order system shall be accessible—*

13                 “(A) *to a military tenant to track a work*  
14                 *request made through the system by the military*  
15                 *tenant;*

16                 “(B) *to military tenant advocates or a com-*  
17                 *mander of the relevant military installation to*  
18                 *track a work request made through the system;*  
19                 *and*

20                 “(C) *to the landlord responsible for the*  
21                 *military housing unit to track a work request*  
22                 *made through the system by a military tenant.*

23          “(f) *DISCLOSURE OF HOUSING CODE VIOLATIONS AND*  
24          *HAZARDS.—*

1           “(1) *IN GENERAL.*—*Before accepting a rental ap-*  
2           *plication from a prospective military tenant to lease*  
3           *a military housing unit, the landlord must disclose to*  
4           *the prospective military tenant the following:*

5                   “(A) *Any housing code violations with re-*  
6                   *spect to the military housing unit incurred with-*  
7                   *in the previous three years.*

8                   “(B) *Either a three-year history of mold*  
9                   *contamination with respect to the military hous-*  
10                   *ing unit and common areas or proof of proper*  
11                   *remediation.*

12                   “(C) *Either a three-year history of lead*  
13                   *contamination in water with respect to the mili-*  
14                   *tary housing unit and common areas or proof of*  
15                   *proper remediation.*

16                   “(D) *Either a three-year history of rodent*  
17                   *infestation with respect to the military housing*  
18                   *unit and common areas or proof of proper reme-*  
19                   *diation.*

20                   “(E) *Any information regarding health-re-*  
21                   *lated symptoms among previous residents of the*  
22                   *military housing unit that may have been the re-*  
23                   *sult of exposure to environmental hazards in the*  
24                   *military housing unit or common areas, if such*  
25                   *residents agreed to voluntarily disclose such in-*

1           *formation. The military tenant advocate shall*  
2           *inform military tenants of their option to dis-*  
3           *close or decline to disclose such information.*

4           “(2) *CONTINUED REQUIREMENT.*—*The landlord*  
5           *must make the information referred to in paragraph*  
6           *(1) accessible to the military tenant throughout the*  
7           *lease of the military housing unit.*

8           “(g) *UNIT INSPECTIONS.*—

9           “(1) *MOVE-IN.*—*A military tenant is entitled to*  
10          *be present for an inspection of a military housing*  
11          *unit before accepting occupancy of the military hous-*  
12          *ing unit to ensure that the military housing unit is*  
13          *habitable and that facilities and common areas of the*  
14          *building are in good repair.*

15          “(2) *MOVE-OUT.*—*A military tenant is entitled*  
16          *to be present for the move-out inspection and must be*  
17          *given sufficient time to address any concerns related*  
18          *to the military tenant’s occupancy of the military*  
19          *housing unit.*

20          “(h) *MILITARY TENANT ADVOCATES.*—(1)(A) *The Sec-*  
21          *retary concerned shall assign personnel of the Department*  
22          *of Defense or contractor personnel to serve as a military*  
23          *tenant advocate—*

24                         “(i) *to assist in the resolution of a dispute*  
25                         *between a landlord and a military tenant; and*

1           “(i) to serve as a liaison between military  
2 tenants and landlords, officials in the chain of  
3 command at the installation, and the individual  
4 designated in paragraph (2) within the Office of  
5 the Secretary of Defense, with respect to concerns  
6 of military tenants at the applicable installation.

7           “(B) A military tenant advocate may not be an em-  
8 ployee of a landlord or occupy office-space provided by a  
9 landlord.

10          “(2)(A) The Secretary of Defense shall designate an in-  
11 dividual within the Office of the Secretary of Defense to  
12 serve as the liaison between the Secretary and the Secre-  
13 taries concerned, the military tenant advocates under para-  
14 graph (1), landlords, and other offices of the Department  
15 as the Secretary determines appropriate with respect to  
16 military tenant issues.

17          “(B) Not later than one year after the date of the en-  
18 actment of the National Defense Authorization Act for Fis-  
19 cal Year 2020, and annually thereafter for the next two  
20 years, the individual designated under subparagraph (A)  
21 shall submit to the Secretary of Defense and the congres-  
22 sional defense committees a report containing a description  
23 of—

24           “(i) common issues encountered by military ten-  
25 ants with respect to military housing; and

1           “(ii) the responsiveness of landlords to tenant re-  
2           quests for the maintenance or repair of military hous-  
3           ing units.”.

4           (2) *CLERICAL AMENDMENT.*—The table of sec-  
5           tions at the beginning of subchapter IV of title 10,  
6           United States Code, is amended by striking the item  
7           relating to section 2886 and inserting the following  
8           new item:

          “2886. Specified rights of tenancy in military housing units.”.

9           (b) *DEFINITIONS.*—Section 2871 of title 10, United  
10          States Code, is amended—

11           (1) by redesignating paragraphs (7) and (8) as  
12           paragraphs (10) and (11), respectively; and

13           (2) by inserting after paragraph (6) the fol-  
14           lowing new paragraphs:

15           “(7) The term ‘landlord’ means an eligible entity  
16           that enters into a contract as a partner with the Sec-  
17           retary concerned for the acquisition or construction of  
18           a military housing unit under this subchapter or any  
19           subsequent lessor who owns, manages, or is otherwise  
20           responsible for a military housing unit.

21           “(8) The term ‘military housing unit’ means a  
22           unit of military family housing or military unaccom-  
23           panied housing acquired or constructed under this  
24           subchapter.

1           “(9) *The term ‘military tenant’ means a member*  
2           *of the armed forces who occupies a military housing*  
3           *unit and any dependent of the member who is a*  
4           *party to a lease for a military housing unit or is au-*  
5           *thorized to act on behalf of the member in the event*  
6           *of the assignment or deployment of the member.’”.*

7           *(c) IMPLEMENTATION REPORT.—Not later than March*  
8           *1, 2020, the Secretary of Defense shall submit to the Com-*  
9           *mittees on Armed Services of the House of Representatives*  
10           *and the Senate a report containing a plan to implement*  
11           *section 2886 of title 10, United States Code, as amended*  
12           *by subsection (a). In the report, the Secretary shall identify*  
13           *any circumstances that would impede application of the re-*  
14           *quirements of such section to existing contracts for the ac-*  
15           *quisition or construction of military family housing units*  
16           *or military unaccompanied housing units under subchapter*  
17           *IV of chapter 169 of such title, and to existing contracts*  
18           *for the management of such military housing units.*

1 **SEC. 2812. PROHIBITION ON USE OF NONDISCLOSURE**  
2 **AGREEMENTS IN CONNECTION WITH LEASES**  
3 **OF MILITARY HOUSING CONSTRUCTED OR**  
4 **ACQUIRED USING ALTERNATIVE AUTHORITY**  
5 **FOR ACQUISITION AND IMPROVEMENT OF**  
6 **MILITARY HOUSING.**

7 (a) *NONDISCLOSURE AGREEMENTS PROHIBITED.*—  
8 *Section 2882 of title 10, United States Code, is amended*  
9 *by adding at the end the following new subsection:*

10 “(d) *PROHIBITION ON USE OF NONDISCLOSURE*  
11 *AGREEMENTS.*—(1) *A member of the armed forces who*  
12 *leases a housing unit acquired or constructed under this*  
13 *subchapter, and any dependent of the member who is a*  
14 *party to a lease for such a unit or is authorized to act on*  
15 *behalf of the member in the event of the assignment or de-*  
16 *ployment of the member, may not be required to sign a non-*  
17 *disclosure agreement in connection with entering into, con-*  
18 *tinuing, or terminating the lease. Any such agreement*  
19 *against the interests of the member is invalid.*

20 “(2) *Paragraph (1) shall not apply to a nondisclosure*  
21 *agreement executed as part of the settlement of litigation.*”.

22 (b) *IMPLEMENTATION.*—*The Secretary of Defense and*  
23 *the Secretaries of the military departments shall promul-*  
24 *gate regulations necessary to give full force and effect to*  
25 *subsection (d) of section 2882 of title 10, United States*  
26 *Code, as added by subsection (a).*

1       (c) *RETROACTIVE APPLICATION OF AMENDMENT.*—  
2       Subsection (d) of section 2882 of title 10, United States  
3       Code, as added by subsection (a), shall apply with respect  
4       to any nondisclosure agreement covered by the terms of such  
5       subsection (d) regardless of the date on which the agreement  
6       was executed.

7       **SEC. 2813. AUTHORITY TO FURNISH CERTAIN SERVICES IN**  
8                               **CONNECTION WITH USE OF ALTERNATIVE AU-**  
9                               **THORITY FOR ACQUISITION AND IMPROVE-**  
10                              **MENT OF MILITARY HOUSING.**

11       Section 2872a(b) of title 10, United States Code, is  
12       amended by adding at the end the following new para-  
13       graphs:

14                           “(13) Street sweeping.

15                           “(14) Tree trimming and removal.”.

16       **SEC. 2814. MODIFICATION TO REQUIREMENTS FOR WINDOW**  
17                              **FALL PREVENTION DEVICES IN MILITARY**  
18                              **FAMILY HOUSING UNITS.**

19       (a) *FALL PREVENTION DEVICE REQUIREMENTS.*—Sec-  
20       tion 2879(a) of title 10, United States Code, is amended—

21                           (1) in paragraph (1), by striking “that protect  
22       against unintentional window falls by young children  
23       and that are in compliance with applicable Inter-  
24       national Building Code (IBC) standards” and insert-  
25       ing “described in paragraph (3)”;

1           (2) *in paragraph (2)*—

2                   (A) *in subparagraph (A), by striking “De-*  
3                   *ember 11, 2017” and inserting “October 1,*  
4                   *2019”; and*

5                   (B) *in subparagraph (B), by striking “Sep-*  
6                   *tember 1, 2018” and inserting “October 1,*  
7                   *2019”; and*

8           (3) *by adding at the end the following new para-*  
9           *graph:*

10                   “(3) *FALL PREVENTION DEVICE DESCRIBED.—A*  
11                   *fall prevention device is a window screen or guard*  
12                   *that complies with applicable standards in ASTM*  
13                   *standard F2090-13 (or any successor standard).”.*

14           (b) *MODIFICATION TO WINDOW DESCRIPTION.—Sec-*  
15           *tion 2879(c) of title 10, United States Code, is amended*  
16           *by striking “24” and inserting “42”.*

17           (c) *CONFORMING AMENDMENT.—Section 2879(b)(1) of*  
18           *title 10, United States Code, is amended by striking “para-*  
19           *graph (1)” and inserting “paragraph (3)”.*

20   **SEC. 2815. ASSESSMENT OF HAZARDS IN DEPARTMENT OF**  
21                   **DEFENSE HOUSING.**

22           (a) *HAZARD ASSESSMENT TOOL.—*

23                   (1) *DEVELOPMENT REQUIRED.—Not later than*  
24                   *180 days after the date of the enactment of this Act,*  
25                   *the Secretary of Defense shall develop an assessment*

1        *tool, such as a rating system or similar mechanism,*  
2        *to identify and measure health and safety hazards in*  
3        *housing under the jurisdiction of the Department of*  
4        *Defense (including privatized housing).*

5            (2) *COMPONENTS.—The assessment tool shall*  
6        *provide for the identification and measurement of the*  
7        *following hazards:*

8            (A) *Physiological hazards, including damp-*  
9        *ness and mold growth, lead-based paint, asbestos*  
10       *and manmade fibers, radiation, biocides, and*  
11       *volatile organic compounds.*

12           (B) *Psychological hazards, including ease of*  
13       *access by unlawful intruders, and lighting issues.*

14           (C) *Infection hazards.*

15           (D) *Safety hazards.*

16           (3) *PUBLIC FORUMS.—In developing the assess-*  
17       *ment tool, the Secretary of Defense shall provide for*  
18       *multiple public forums at which the Secretary may*  
19       *receive input with respect to such assessment tool*  
20       *from occupants of housing under the jurisdiction of*  
21       *the Department of Defense (including privatized hous-*  
22       *ing).*

23           (4) *REPORT.—Not later than 210 days after the*  
24       *date of the enactment of this Act, the Secretary of De-*  
25       *fense shall submit to the Committees on Armed Serv-*

1        *ices of the Senate and the House of Representatives a*  
2        *report on the assessment tool.*

3        *(b) HAZARD ASSESSMENTS.—*

4            *(1) ASSESSMENTS REQUIRED.—Not later than*  
5        *one year after the date of the enactment of this Act,*  
6        *the Secretary of Defense, using the assessment tool de-*  
7        *veloped under subsection (a)(1), shall complete a haz-*  
8        *ard assessment for each housing facility under the ju-*  
9        *risdiction of the Department of Defense (including*  
10       *privatized housing).*

11           *(2) TENANT INFORMATION.—As soon as prac-*  
12       *ticable after the completion of the hazard assessment*  
13       *conducted for a housing facility under paragraph (1),*  
14       *the Secretary of Defense shall provide to each indi-*  
15       *vidual who leases or is assigned to a housing unit in*  
16       *the facility a summary of the results of the assess-*  
17       *ment.*

18       **SEC. 2816. DEVELOPMENT OF PROCESS TO IDENTIFY AND**  
19                            **ADDRESS ENVIRONMENTAL HEALTH HAZ-**  
20                            **ARDS IN DEPARTMENT OF DEFENSE HOUS-**  
21                            **ING.**

22           *(a) PROCESS REQUIRED.—Not later than 180 days*  
23       *after the date of the enactment of this Act, the Secretary*  
24       *of Defense, in coordination with the Secretaries of the mili-*  
25       *tary departments, shall develop a process to identify, record,*

1 *and resolve environmental health hazards in housing under*  
2 *the jurisdiction of the Department of Defense (including*  
3 *privatized housing) in a timely manner.*

4 (b) *ELEMENTS OF PROCESS.—The process developed*  
5 *under subsection (a) shall provide for the following with*  
6 *respect to each identified environmental health hazard:*

7 (1) *Categorization of the hazard.*

8 (2) *Identification of health risks posed by the*  
9 *hazard.*

10 (3) *Identification of the number of housing occu-*  
11 *pants potentially affected by the hazard.*

12 (4) *Recording and maintenance of information*  
13 *regarding the hazard.*

14 (5) *Resolution of the hazard, which shall in-*  
15 *clude—*

16 (A) *the performance by the Secretary of De-*  
17 *fense (or in the case of privatized housing, the*  
18 *landlord) of hazard remediation activities at the*  
19 *affected facility; and*

20 (B) *follow-up by the Secretary of Defense to*  
21 *collect information on medical care related to the*  
22 *hazard sought or received by individuals affected*  
23 *by the hazard.*

24 (c) *COORDINATION.—The Secretary of Defense shall*  
25 *ensure coordination between military treatment facilities,*

1 *appropriate public health officials, and housing managers*  
2 *at military installations with respect to the development*  
3 *and implementation of the process required by subsection*  
4 *(a).*

5 *(d) REPORT.—Not later than 210 days after the date*  
6 *of the enactment of this Act, the Secretary of Defense shall*  
7 *submit to the Committees on Armed Services of the Senate*  
8 *and the House of Representatives a report on the process*  
9 *required by subsection (a).*

10 **SEC. 2817. REPORT ON CIVILIAN PERSONNEL SHORTAGES**  
11 **FOR APPROPRIATE OVERSIGHT OF MANAGE-**  
12 **MENT OF MILITARY HOUSING CONSTRUCTED**  
13 **OR ACQUIRED USING ALTERNATIVE AUTHOR-**  
14 **ITY FOR ACQUISITION AND IMPROVEMENT OF**  
15 **MILITARY HOUSING.**

16 *(a) REPORT REQUIRED.—Not later than six months*  
17 *after the date of the enactment of this Act, the Secretary*  
18 *of Defense, in coordination with the Secretaries of the mili-*  
19 *tary departments, shall submit to the congressional defense*  
20 *committees a report containing the following:*

21 *(1) An evaluation of the extent to which short-*  
22 *ages in the number of civilian personnel performing*  
23 *oversight functions at Department of Defense housing*  
24 *management offices or assigned to housing-related*  
25 *functions at headquarters levels contribute to problems*

1       *regarding the management of military housing con-*  
2       *structed or acquired using the alternative authority*  
3       *for the acquisition and improvement of military hous-*  
4       *ing under subchapter IV of chapter 169 of title 10,*  
5       *United States Code.*

6               *(2) Recommendations to address such personnel*  
7       *shortages in order to eliminate management problems*  
8       *regarding such military housing, ensure oversight of*  
9       *the partner's execution of the housing agreement and*  
10       *the delivery of all requirements in accordance with*  
11       *implementing guidance provided by the Secretaries of*  
12       *the military departments, improve oversight of and*  
13       *expedite the work-order process, and facilitate a posi-*  
14       *tive experience for members of the Armed Forces and*  
15       *their dependents who reside in military housing.*

16       *(b) PERSONNEL RECOMMENDATIONS.—As part of the*  
17       *recommendations required by subsection (a)(2), the Sec-*  
18       *retary of Defense shall—*

19               *(1) determine the number of additional personnel*  
20       *who are required, the installation and headquarter lo-*  
21       *cations at which they will be employed, the employ-*  
22       *ment positions they will fill, and the duties they will*  
23       *perform;*

24               *(2) identify the number of additional personnel*  
25       *already hired as of the date on which the report is*

1        *submitted and their locations and the timeline for*  
2        *employing the remaining required personnel; and*  
3            *(3) estimate the cost of employing the additional*  
4        *personnel.*

5        **SEC. 2818. INSPECTOR GENERAL REVIEW OF DEPARTMENT**  
6                    **OF DEFENSE OVERSIGHT OF PRIVATIZED**  
7                    **MILITARY HOUSING.**

8        *Not later than one year after the date of the enactment*  
9        *of this Act, and annually thereafter until 2022, the Inspec-*  
10       *tor General of the Department of Defense shall—*

11            *(1) conduct a review at not less than 15 ran-*  
12        *domly selected military installations of the oversight*  
13        *by the Secretary of Defense of privatized military*  
14        *housing at such installations; and*

15            *(2) make publicly available on a website of the*  
16        *Department a summary of the results of such review.*

17        **SEC. 2819. DEPARTMENT OF DEFENSE INSPECTION AU-**  
18                    **THORITY REGARDING PRIVATIZED MILITARY**  
19                    **HOUSING.**

20        *(a) INSPECTION AUTHORITY.—Section 2885 of title 10,*  
21        *United States Code, is amended by adding at the end the*  
22        *following new subsection:*

23            *“(g) POST-CONSTRUCTION ACCESS AND INSPECTION*  
24        *AUTHORITY.—*

1           “(1) *REQUIREMENT.*—*The Secretary concerned*  
2           *shall retain the authority after the completion of a*  
3           *military housing privatization project to access and*  
4           *inspect any military housing unit, ancillary sup-*  
5           *porting facility, or common area acquired, con-*  
6           *structed, or renovated as part of the project in order*  
7           *to protect the health and safety of members of the*  
8           *armed forces and their dependents who occupy the*  
9           *privatized military housing units.*

10           “(2) *NOTICE AND RIGHT OF REFUSAL OF ACCESS*  
11           *AND INSPECTION.*—*The Secretary concerned shall en-*  
12           *sure that the individuals who lease or are assigned a*  
13           *military housing unit—*

14                   “(A) *are provided not less than 48 hours*  
15                   *notice prior to the Secretary concerned accessing*  
16                   *and inspecting the unit as authorized under*  
17                   *paragraph (1); and*

18                   “(B) *have the right to refuse the Secretary*  
19                   *concerned such access.”.*

20           “(b) *RETROACTIVE APPLICATION OF AMENDMENT.*—  
21           *Subsection (g) of section 2885 of title 10, United States*  
22           *Code, as added by subsection (a), shall apply to each mili-*  
23           *tary housing privatization project completed prior to the*  
24           *date of the enactment of this Act, and to each such project*  
25           *completed on or after such date.*

1 **SEC. 2820. IMPROVEMENT OF PRIVATIZED MILITARY HOUS-**  
2 **ING.**

3 (a) *COMPLAINT DATABASE AND FINANCIAL TRANS-*  
4 *PARENCY.—*

5 (1) *IN GENERAL.—Subchapter IV of chapter 169*  
6 *of title 10, United States Code, is amended by adding*  
7 *at the end the following new sections:*

8 **“§2887. Complaint database**

9 “(a) *DATABASE REQUIRED.—The Secretary of Defense*  
10 *shall establish a database that is available to the public of*  
11 *complaints relating to housing units under this subchapter.*

12 “(b) *FILING OF COMPLAINTS.—The Secretary shall en-*  
13 *sure that a tenant of a housing unit under this subchapter*  
14 *may file a complaint relating to such housing unit for in-*  
15 *clusion in the database under subsection (a).*

16 “(c) *RESPONSE BY LANDLORD.—(1) The Secretary*  
17 *shall include in any contract with a landlord responsible*  
18 *for a housing unit under this subchapter a requirement that*  
19 *the landlord respond to any complaints included in the*  
20 *database under subsection (a) that relate to the housing*  
21 *unit.*

22 “(2) *Any response under paragraph (1) shall be in-*  
23 *cluded in the database under subsection (a).*

24 **“§2888. Financial transparency**

25 “(a) *AUDITS OF AGREEMENTS WITH PARTNERS.—(1)*  
26 *Not less frequently than annually, the Comptroller General*

1 *of the United States, in accordance with best audit prac-*  
2 *tices, shall randomly select one small, medium, and large*  
3 *military installation participating in the Military*  
4 *Privatized Housing Initiative for the purposes of con-*  
5 *ducting a full financial audit of the privatized housing*  
6 *project or projects at each installation. The results of audits*  
7 *conducted under this section shall be provided to the Sec-*  
8 *retary of Defense and the Committees on Armed Services*  
9 *of the Senate and the House of Representatives.*

10       “(2) Audits conducted under paragraph (1) shall in-  
11 clude an analysis, at a minimum, of the following:

12               “(A) Base management fees for managing the  
13 housing units.

14               “(B) Incentive fees relating to the housing units,  
15 including details on the following:

16                       “(i) Metrics upon which such incentive fees  
17 are paid.

18                       “(ii) Whether incentive fees were paid in  
19 full or withheld in part or in full during the  
20 year covered by the publication, and if so, why.

21               “(C) Asset management fees relating to the hous-  
22 ing units.

23               “(D) Preferred return fees relating to the housing  
24 units.

1           “(E) Any deferred fees or other fees relating to  
2           the housing units.

3           “(F) Residual cash flow distributions relating to  
4           the housing units.

5           “(G) Provider’s financial relationship with and  
6           use of subsidiaries and third parties to manage/im-  
7           plement housing agreements.”.

8           (2) *CLERICAL AMENDMENT.*—The table of sec-  
9           tions at the beginning of subchapter IV of chapter 169  
10          of title 10, United States Code, is amended by insert-  
11          ing after the item relating to section 2886 the fol-  
12          lowing new items:

“2887. Complaint database.

“2888. Financial transparency.”.

13          (b) *ANNUAL REPORTS ON PRIVATIZED MILITARY*  
14          *HOUSING.*—Section 2884 of title 10, United States Code,  
15          is amended by adding at the end the following new sub-  
16          section:

17          “(d) *ANNUAL REPORT ON HOUSING.*—(1) Not less fre-  
18          quently than annually, the Secretary of Defense shall sub-  
19          mit to the congressional defense committees and publish on  
20          a publicly available website of the Department of Defense  
21          a report on housing units under this subchapter,  
22          disaggregated by military installation.

23          “(2) Each report submitted under paragraph (1) shall  
24          include the following:

1           “(A) *An assessment of the condition of housing*  
2           *units under this subchapter based on the average age*  
3           *of those units and the estimated time until recapital-*  
4           *ization.*

5           “(B) *An analysis of complaints of tenants of*  
6           *such housing units.*

7           “(C) *An assessment of maintenance response*  
8           *times and completion of maintenance requests relat-*  
9           *ing to such housing units.*

10          “(D) *An assessment of dispute resolution relating*  
11          *to such housing units, which must include an anal-*  
12          *ysis of all denied tenant requests to withhold rent*  
13          *payments, or where the dispute resolution process re-*  
14          *sulted in a favorable outcome for the housing pro-*  
15          *vider.*

16          “(E) *An assessment of overall customer service*  
17          *for tenants of such housing units.*

18          “(F) *A description of the results of any no-notice*  
19          *housing inspections conducted for such housing units.*

20          “(G) *The results of any resident surveys con-*  
21          *ducted with respect to such housing units.”.*

1           ***Subtitle C—Real Property and***  
2           ***Facilities Administration***

3   ***SEC. 2831. IMPROVED ENERGY SECURITY FOR MAIN OPER-***  
4           ***ATING BASES IN EUROPE.***

5           (a) *PROHIBITION ON USE OF CERTAIN ENERGY*  
6   *SOURCE.*—*The Secretary of Defense shall ensure that each*  
7   *contract for the acquisition of furnished energy for a covered*  
8   *military installation in Europe does not use natural gas*  
9   *sourced from inside the Russian Federation as a means of*  
10   *generating the furnished energy for the covered military in-*  
11   *stallation.*

12          (b) *WAIVER FOR NATIONAL SECURITY INTERESTS.*—

13               (1) *WAIVER AUTHORITY; CERTIFICATION.*—*The*  
14   *Secretary of Defense may waive application of sub-*  
15   *section (a) to a specific contract for the acquisition of*  
16   *furnished energy for a covered military installation if*  
17   *the Secretary certifies to the congressional defense*  
18   *committees that—*

19                       (A) *the waiver of such subsection is nec-*  
20                       *essary to ensure an adequate supply of furnished*  
21                       *energy for the covered military installation; and*

22                       (B) *the Secretary has balanced these na-*  
23                       *tional security requirements against the poten-*  
24                       *tial risk associated with reliance upon the Rus-*  
25                       *sian Federation for furnished energy.*

1           (2) *SUBMISSION OF WAIVER NOTICE.*—Not later  
2           than 14 days before the execution of any energy con-  
3           tract for which a waiver is granted under paragraph  
4           (1), the Secretary of Defense shall submit to the con-  
5           gressional defense committees notice of the waiver.  
6           The waiver notice shall include the following:

7                   (A) *The rationale for the waiver, including*  
8                   *the basis for the certifications required by sub-*  
9                   *paragraphs (A) and (B) of paragraph (1).*

10                   (B) *An assessment of how the waiver may*  
11                   *impact the European energy resiliency strategy.*

12                   (C) *An explanation of the measures the De-*  
13                   *partment of Defense is taking to mitigate the*  
14                   *risk of using Russian Federation furnished en-*  
15                   *ergy.*

16           (c) *DEFINITIONS.*—*In this section:*

17                   (1) *The term “covered military installation”*  
18                   *means a military installation in Europe identified by*  
19                   *the Department of Defense as a main operating base.*

20                   (2) *The term “furnished energy” means energy*  
21                   *furnished to a covered military installation in any*  
22                   *form and for any purpose, including heating, cooling,*  
23                   *and electricity.*

1 **SEC. 2832. ACCESS TO DEPARTMENT OF DEFENSE FACILI-**  
2 **TIES FOR CREDENTIALLED TRANSPORTATION**  
3 **WORKERS.**

4 *Section 1050 of the National Defense Authorization*  
5 *Act for Fiscal Year 2017 (Public Law 114–328; 10 U.S.C.*  
6 *113 note) is amended—*

7 *(1) by striking subsection (a) and inserting the*  
8 *following new subsection:*

9 *“(a) ACCESS TO FACILITIES FOR CREDENTIALLED*  
10 *TRANSPORTATION WORKERS.—The Secretary of Defense, to*  
11 *the extent practicable—*

12 *“(1) shall ensure that the Transportation Worker*  
13 *Identification Credential is accepted as a valid cre-*  
14 *dential for unescorted access to a work site at a mari-*  
15 *time terminal of the Department of Defense; and*

16 *“(2) may provide that the Transportation Work-*  
17 *er Identification Credential be accepted as a valid*  
18 *credential for unescorted access to Department of De-*  
19 *fense facilities other than those specified in paragraph*  
20 *(1).”;* and

21 *(2) in the section heading, by striking “INSTAL-*  
22 *LATIONS” and inserting “FACILITIES”.*

1           ***Subtitle D—Land Conveyances***

2   ***SEC. 2841. LAND CONVEYANCE, HILL AIR FORCE BASE,***  
3                           ***UTAH.***

4           (a) *CONVEYANCE AUTHORIZED.*—*The Secretary of the*  
5 *Air Force may convey, without consideration, to the State*  
6 *of Utah or a designee of the State of Utah (in this section*  
7 *referred to as the “State”) all right, title, and interest of*  
8 *the United States in and to a parcel of real property, in-*  
9 *cluding improvements thereon, consisting of approximately*  
10 *35 acres located at Hill Air Force Base (commonly known*  
11 *as the Defense Nontactical Generator and Rail Center), and*  
12 *such real property adjacent to the Center as the parties con-*  
13 *sider to be appropriate, for the purpose of permitting the*  
14 *State to construct a new interchange for Interstate 15.*

15           (b) *CONDITION OF CONVEYANCE.*—*As a condition on*  
16 *the conveyance authorized by subsection (a), the State shall*  
17 *agree to the following:*

18                   (1) *That, not later than two years after the date*  
19 *of the conveyance of the property under such sub-*  
20 *section, the State, at no cost to the United States,*  
21 *shall—*

22                           (A) *demolish all improvements, and infra-*  
23 *structure associated with the improvements, in*  
24 *existence on the property as of the date of the*  
25 *conveyance; and*

1           (B) subject to subsection (c), complete all  
2           environmental cleanup and remediation activi-  
3           ties as may be required for the planned redevel-  
4           opment and use of the property.

5           (2) That, as part of the construction of the new  
6           Interstate 15 interchange referred to in subsection (a),  
7           the State, at no cost to the United States, shall con-  
8           struct on the property a new gate for Hill Air Force  
9           Base in compliance with such construction, security,  
10          and other requirements as the Secretary of the Air  
11          Force considers to be necessary.

12          (3) That the State shall coordinate any demoli-  
13          tion, cleanup, remediation, design, redevelopment,  
14          and construction activities performed pursuant to the  
15          conveyance of property under subsection (a) with the  
16          Secretary and the Utah Department of Transpor-  
17          tation.

18          (c) ENVIRONMENTAL OBLIGATIONS.—The State shall  
19          not have any obligation in relation to any environmental  
20          conditions on the property to be conveyed under subsection  
21          (a) unless—

22                (1) the conditions were in existence and known  
23                before the date of the conveyance of the property; and

24                (2) the State agrees to address the conditions  
25                under subsection (b)(1)(B).

1       (d) *PAYMENT OF COSTS OF CONVEYANCE.*—

2               (1) *PAYMENT REQUIRED.*—*The Secretary of the*  
3 *Air Force shall require the State to cover costs to be*  
4 *incurred by the Secretary, or to reimburse the Sec-*  
5 *retary for such costs incurred, to carry out the con-*  
6 *veyance under subsection (a), including survey costs,*  
7 *costs for environmental documentation, and other ad-*  
8 *ministrative costs related to the conveyance. If*  
9 *amounts collected are in advance of the Secretary in-*  
10 *curring actual costs, and the amount collected exceeds*  
11 *the costs actually incurred by the Secretary to carry*  
12 *out the conveyance, the Secretary shall refund the ex-*  
13 *cess amount.*

14               (2) *TREATMENT OF AMOUNTS RECEIVED.*—  
15 *Amounts received under paragraph (1) as reimburse-*  
16 *ment for costs incurred by the Secretary to carry out*  
17 *the conveyance under subsection (a) shall be credited*  
18 *to the fund or account that was used to cover the costs*  
19 *incurred by the Secretary in carrying out the convey-*  
20 *ance, or to an appropriate fund or account currently*  
21 *available to the Secretary for the purposes for which*  
22 *the costs were paid. Amounts so credited shall be*  
23 *merged with amounts in such fund or account and*  
24 *shall be available for the same purposes, and subject*

1        *to the same conditions and limitations, as amounts in*  
2        *such fund or account.*

3        *(e) DESCRIPTION OF PROPERTY.—The exact acreage*  
4        *and legal description of the property to be conveyed under*  
5        *subsection (a) shall be determined by a survey satisfactory*  
6        *to the Secretary of the Air Force.*

7        *(f) ADDITIONAL TERMS AND CONDITIONS.—The Sec-*  
8        *retary of the Air Force may require such additional terms*  
9        *and conditions in connection with the conveyance under*  
10       *subsection (a) as the Secretary considers appropriate to*  
11       *protect the interests of the United States.*

12       **SEC. 2842. RELEASE OF CONDITIONS AND REVERSIONARY**  
13                                **INTEREST, CAMP JOSEPH T. ROBINSON, AR-**  
14                                **KANSAS.**

15        *(a) RELEASE OF CONDITIONS AND RETAINED INTER-*  
16        *ESTS.—With respect to a parcel of real property at Camp*  
17        *Joseph T. Robinson, Arkansas, consisting of approximately*  
18        *141.52 acres and conveyed by the United States to the State*  
19        *of Arkansas pursuant to the Act entitled “An Act author-*  
20        *izing the transfer of part of Camp Joseph T. Robinson to*  
21        *the State of Arkansas”, approved June 30, 1950 (64 Stat.*  
22        *311, chapter 429), the Secretary of the Army may release,*  
23        *without consideration, the terms and conditions imposed by*  
24        *the United States and the reversionary interest retained by*  
25        *the United States under section 2 of such Act and the right*

1 *to reenter and use the property retained by the United*  
2 *States under section 3 of such Act.*

3       **(b) CONDITION OF RELEASE.**—*As a condition of the*  
4 *release of terms and conditions and retained interests under*  
5 *subsection (a) and subject to subsection (c), the State of Ar-*  
6 *kansas shall agree to convey, without consideration, the*  
7 *parcel of real property described in subsection (a) to the*  
8 *Arkansas Department of Veterans Affairs for the purpose*  
9 *of expanding the Arkansas State Veterans Cemetery in*  
10 *North Little Rock, Arkansas.*

11       **(c) NEW REVERSIONARY INTEREST.**—*The conveyance*  
12 *required by subsection (b) of the real property described in*  
13 *subsection (a) shall include a reversionary interest to pro-*  
14 *tect the interests of the United States. Under the terms of*  
15 *such reversionary interest, if the Secretary of the Army de-*  
16 *termines at any time that the real property conveyed pursu-*  
17 *ant to subsection (b) is not being used in accordance with*  
18 *the purpose of the conveyance specified in such subsection,*  
19 *all right, title, and interest in and to the real property,*  
20 *including any improvements thereto, shall, at the option of*  
21 *the Secretary, revert to and become the property of the*  
22 *United States, and the United States shall have the right*  
23 *of immediate entry onto the real property. A determination*  
24 *by the Secretary under this subsection shall be made on the*  
25 *record after an opportunity for a hearing.*

1           (d) *INSTRUMENT OF RELEASE AND DESCRIPTION OF*  
2 *PROPERTY.*—*The Secretary of the Army may execute and*  
3 *file in the appropriate office a deed of release, amended*  
4 *deed, or other appropriate instrument reflecting the release*  
5 *of terms and conditions and retained interests under sub-*  
6 *section (a). The exact acreage and legal description of the*  
7 *property described in this section shall be determined by*  
8 *a survey satisfactory to the Secretary of the Army.*

9           (e) *PAYMENT OF ADMINISTRATIVE COSTS.*—

10           (1) *PAYMENT REQUIRED.*—*The Secretary of the*  
11 *Army may require the State of Arkansas to cover*  
12 *costs to be incurred by the Secretary, or to reimburse*  
13 *the Secretary for costs incurred by the Secretary, to*  
14 *carry out the release of terms and conditions and re-*  
15 *tained interests under subsection (a), including sur-*  
16 *vey costs, costs related to environmental documenta-*  
17 *tion, and other administrative costs related to the re-*  
18 *lease. If amounts paid to the Secretary in advance ex-*  
19 *ceed the costs actually incurred by the Secretary to*  
20 *carry out the release, the Secretary shall refund the*  
21 *excess amount to the State.*

22           (2) *TREATMENT OF AMOUNTS RECEIVED.*—  
23 *Amounts received under subsection (a) as reimburse-*  
24 *ment for costs incurred by the Secretary to carry out*  
25 *the release of terms and conditions and retained in-*



1        *application for use of the property conveyed by sec-*  
2        *tion 2 of Public Law 85–236 for purposes of meeting*  
3        *the needs of the homeless in accordance with the*  
4        *amendment made by subsection (a).*

5                (2) *REVIEW OF APPLICATION.*—*Not later than 60*  
6        *days after the date of receipt of an application pursu-*  
7        *ant to paragraph (1), the Administrator and the Sec-*  
8        *retary of Health and Human Services shall jointly*  
9        *determine whether the use of the property described in*  
10        *the application is a use for purposes of meeting the*  
11        *needs of the homeless.*

12                (3) *MODIFICATION OF INSTRUMENT OF CONVEY-*  
13        *ANCE.*—*If the Administrator and the Secretary joint-*  
14        *ly determine that the use of the property described in*  
15        *the application is for purposes of meeting the needs*  
16        *of the homeless, the Administrator shall execute and*  
17        *record in the appropriate office an instrument of*  
18        *modification of the deed of conveyance executed pur-*  
19        *suant to Public Law 85–236 in order to authorize*  
20        *such use of the property. The instrument shall include*  
21        *such additional terms and conditions as the Adminis-*  
22        *trator considers appropriate to protect the interests of*  
23        *the United States.*

24                (4) *COMPATIBILITY WITH MILITARY PURPOSES.*—  
25        *Before executing any instrument of modification of*

1 *the deed of conveyance, the Administrator and the*  
2 *Secretary shall request a review by the Chief of the*  
3 *National Guard Bureau, in consultation with the*  
4 *Secretary of the Army, to ensure that any modifica-*  
5 *tion of the use of the property described in the appli-*  
6 *cation is compatible with the training of members of*  
7 *the National Guard and other military purposes.*

8 ***Subtitle E—Military Land***  
9 ***Withdrawals***

10 ***SEC. 2851. PUBLIC NOTICE REGARDING UPCOMING PERI-***  
11 ***ODS OF SECRETARY OF THE NAVY MANAGE-***  
12 ***MENT OF SHARED USE AREA OF THE JOHN-***  
13 ***SON VALLEY OFF-HIGHWAY VEHICLE RECRE-***  
14 ***ATION AREA.***

15 *(a) PUBLIC NOTICE REQUIRED.—Section 2942(b)(2)*  
16 *of the Military Land Withdrawals Act of 2013 (title XXIX*  
17 *of Public Law 113–66; 127 Stat. 1036) is amended by add-*  
18 *ing at the end the following new subparagraph:*

19 *“(D) PUBLIC NOTICE.—Not later than one*  
20 *year before the date on which a 30-day period of*  
21 *Secretary of the Navy management of the Shared*  
22 *Use Area will start, the Secretary of the Navy,*  
23 *acting through the Resource Management Group*  
24 *established pursuant to section 2944, shall notify*  
25 *the public of the start date and the intention of*

1           *the Armed Forces to use the Shared Use Area for*  
2           *military training purposes. The Secretary of the*  
3           *Navy, upon notice to the Secretary of the Inte-*  
4           *rior, may waive such public notice in the event*  
5           *of an emergent military training requirement.”.*

6           **(b) APPLICATION OF AMENDMENT.**—*Subparagraph*  
7           **(D) of section 2942(b)(2) of the Military Land Withdrawals**  
8           **Act of 2013 (title XXIX of Public Law 113–66; 127 Stat.**  
9           **1036), as added by subsection (a), shall apply to periods**  
10           **of Secretary of the Navy management of the Shared Use**  
11           **Area of the Johnson Valley Off-Highway Vehicle Recreation**  
12           **Area under such section that start on or after January 1,**  
13           **2021.**

14           ***Subtitle F—White Sands National***  
15           ***Park and White Sands Missile***  
16           ***Range***

17           **SEC. 2861. SHORT TITLE.**

18           *This subtitle may be cited as the “White Sands Na-*  
19           *tional Park Establishment Act”.*

20           **SEC. 2862. DEFINITIONS.**

21           *In this subtitle:*

22                   **(1) MAP.**—*The term “Map” means the map enti-*  
23                   *tled “White Sands National Park Proposed Boundary*  
24                   *Revision & Transfer of Lands Between National Park*

1     *Service & Department of the Army*”, numbered 142/  
2     136,271, and dated February 14, 2017.

3           (2) *MILITARY MUNITIONS*.—*The term “military*  
4     *munitions” has the meaning given the term in section*  
5     *101(e) of title 10, United States Code.*

6           (3) *MISSILE RANGE*.—*The term “Missile Range”*  
7     *means the White Sands Missile Range, New Mexico,*  
8     *administered by the Secretary of the Army.*

9           (4) *MONUMENT*.—*The term “Monument” means*  
10    *the White Sands National Monument, New Mexico,*  
11    *established by Presidential Proclamation No. 2025*  
12    *(54 U.S.C. 320301 note), dated January 18, 1933,*  
13    *and administered by the Secretary of the Interior.*

14          (5) *MUNITIONS DEBRIS*.—*The term “munitions*  
15    *debris” has the meaning given the term in volume 8*  
16    *of the Department of Defense Manual Number*  
17    *6055.09–M entitled “DoD Ammunitions and Explo-*  
18    *sives Safety Standards” and dated February 29, 2008*  
19    *(as in effect on the date of enactment of this Act).*

20          (6) *NATIONAL PARK*.—*The term “National Park”*  
21    *means the White Sands National Park established by*  
22    *this subtitle.*

23          (7) *PUBLIC LAND ORDER*.—*The term “Public*  
24    *Land Order” means Public Land Order 833, dated*  
25    *May 21, 1952 (17 Fed. Reg. 4822).*

1 **SEC. 2863. FINDINGS.**

2 *Congress finds the following:*

3 *(1) White Sands National Monument was estab-*  
4 *lished on January 18, 1933, by President Herbert*  
5 *Hoover pursuant to the Antiquities Act of 1906 (now*  
6 *chapter 3203 of title 54, United States Code).*

7 *(2) President Hoover proclaimed that the Monu-*  
8 *ment was established “for the preservation of the*  
9 *white sands and additional features of scenic, sci-*  
10 *entific, and educational interest”.*

11 *(3) The Monument was expanded by Presidents*  
12 *Roosevelt, Eisenhower, Carter, and Clinton in 1934,*  
13 *1942, 1953, 1978, and 1996, respectively.*

14 *(4) The Monument contains a substantially more*  
15 *diverse set of nationally significant historical, archae-*  
16 *ological, scientific, and natural resources than were*  
17 *known of at the time the Monument was established,*  
18 *including a number of recent discoveries.*

19 *(5) The Monument is recognized as a major unit*  
20 *of the National Park System with extraordinary val-*  
21 *ues enjoyed by more visitors each year since 1995*  
22 *than any other unit in the State of New Mexico.*

23 *(6) The Monument contributes significantly to*  
24 *the local economy by attracting tourists.*

25 *(7) Designation of the Monument as a national*  
26 *park would increase public recognition of the diverse*

1        *array of nationally significant resources at the Monu-*  
2        *ment and visitation to the unit.*

3    **SEC. 2864. ESTABLISHMENT OF WHITE SANDS NATIONAL**  
4                                    **PARK IN THE STATE OF NEW MEXICO.**

5        (a) *ESTABLISHMENT.*—*To protect, preserve, and re-*  
6        *store its scenic, scientific, educational, natural, geological,*  
7        *historical, cultural, archaeological, paleontological,*  
8        *hydrological, fish, wildlife, and recreational values and to*  
9        *enhance visitor experiences, there is established the White*  
10       *Sands National Park as a unit of the National Park Sys-*  
11       *tem.*

12       (b) *ABOLISHMENT OF WHITE SANDS NATIONAL MONU-*  
13       *MENT.*—

14                (1) *ABOLISHMENT.*—*Due to the establishment of*  
15        *the National Park, the Monument is abolished.*

16                (2) *INCORPORATION.*—*The land and interests in*  
17        *land that comprise the Monument are incorporated*  
18        *in, and shall be considered to be part of, the National*  
19        *Park.*

20        (c) *REFERENCES.*—*Any reference in a law, map, regu-*  
21        *lation, document, paper, or other record of the United*  
22        *States to White Sands National Monument shall be consid-*  
23        *ered to be a reference to White Sands National Park.*

24        (d) *AVAILABILITY OF FUNDS.*—*Any funds available for*  
25        *the Monument shall be available for the National Park.*

1       (e) *ADMINISTRATION.*—*The Secretary of the Interior*  
2 *shall administer the National Park in accordance with—*

3               (1) *this subtitle; and*

4               (2) *the laws generally applicable to units of the*  
5 *National Park System, including section 100101(a),*  
6 *chapter 1003, sections 100751(a), 100752, 100753,*  
7 *and 102101, and chapter 3201 of title 54, United*  
8 *States Code.*

9       (f) *EFFECT.*—*Nothing in this section affects—*

10              (1) *valid existing rights (including water rights);*

11              (2) *permits or contracts issued by the Monument;*

12              (3) *existing agreements, including agreements*  
13 *with the Department of Defense;*

14              (4) *the jurisdiction of the Department of Defense*  
15 *regarding the restricted airspace above the National*  
16 *Park; or*

17              (5) *the airshed classification of the National*  
18 *Park under the Clean Air Act (42 U.S.C. 7401 et*  
19 *seq.).*

20 **SEC. 2865. TRANSFERS OF ADMINISTRATIVE JURISDICTION**

21                               **RELATED TO THE NATIONAL PARK AND**

22                               **WHITE SANDS MISSILE RANGE.**

23       (a) *TRANSFER OF ADMINISTRATIVE JURISDICTION TO*  
24 *THE SECRETARY OF THE INTERIOR.*—

1           (1) *IN GENERAL.*—*Administrative jurisdiction*  
2 *over the land described in paragraph (2) is trans-*  
3 *ferred from the Secretary of the Army to the Secretary*  
4 *of the Interior.*

5           (2) *DESCRIPTION OF LAND.*—*The land referred*  
6 *to in paragraph (1) consists of the following:*

7           (A) *The approximately 2,826 acres of land*  
8 *identified as “To NPS, lands inside current*  
9 *boundary” on the Map.*

10           (B) *The approximately 5,766 acres of land*  
11 *identified as “To NPS, new additions” on the*  
12 *Map.*

13           (b) *TRANSFER OF ADMINISTRATIVE JURISDICTION TO*  
14 *THE SECRETARY OF THE ARMY.*—

15           (1) *IN GENERAL.*—*Administrative jurisdiction*  
16 *over the land described in paragraph (2) is trans-*  
17 *ferred from the Secretary of the Interior to the Sec-*  
18 *retary of the Army.*

19           (2) *DESCRIPTION OF LAND.*—*The land referred*  
20 *to in paragraph (1) consists of the approximately*  
21 *3,737 acres of land identified as “To DOA” on the*  
22 *Map.*

23           (c) *ADMINISTRATION.*—

24           (1) *NATIONAL PARK.*—*The Secretary of the Inte-*  
25 *rior shall administer the land transferred under sub-*

1 *section (a) in accordance with laws (including regula-*  
2 *tions) applicable to the National Park.*

3 *(2) MISSILE RANGE.—Subject to subsection (d),*  
4 *the Secretary of the Army shall administer the land*  
5 *transferred to the Secretary of the Army under sub-*  
6 *section (b) as part of the Missile Range.*

7 *(d) INFRASTRUCTURE; RESOURCE MANAGEMENT.—*

8 *(1) RANGE ROAD 7.—*

9 *(A) INFRASTRUCTURE MANAGEMENT.—To*  
10 *the maximum extent practicable, in planning,*  
11 *constructing, and managing infrastructure on*  
12 *the land described in subparagraph (C), the Sec-*  
13 *retary of the Army shall apply low-impact devel-*  
14 *opment techniques and strategies to prevent im-*  
15 *pacts within the Missile Range and the National*  
16 *Park from stormwater runoff from the land de-*  
17 *scribed in that subparagraph.*

18 *(B) RESOURCE MANAGEMENT.—The Sec-*  
19 *retary of the Army shall—*

20 *(i) manage the land described in sub-*  
21 *paragraph (C) in a manner consistent with*  
22 *the protection of natural and cultural re-*  
23 *sources within the Missile Range and the*  
24 *National Park and in accordance with sec-*  
25 *tion 101(a)(1)(B) of the Sikes Act (16*

1 *U.S.C. 670a(a)(1)(B)), division A of sub-*  
2 *title III of title 54, United States Code, and*  
3 *the Native American Graves Protection and*  
4 *Repatriation Act (25 U.S.C. 3001 et seq.);*  
5 *and*

6 *(ii) include the land described in sub-*  
7 *paragraph (C) in the integrated natural*  
8 *and cultural resource management plan for*  
9 *the Missile Range.*

10 *(C) DESCRIPTION OF LAND.—The land re-*  
11 *ferred to in subparagraphs (A) and (B) is the*  
12 *land that is transferred to the administrative ju-*  
13 *risdiction of the Secretary of the Army under*  
14 *subsection (b) and located in the area east of*  
15 *Range Road 7 in—*

16 *(i) T. 17 S., R. 5 E., sec. 31;*

17 *(ii) T. 18 S., R. 5 E.; and*

18 *(iii) T. 19 S., R. 5 E., sec. 5.*

19 *(2) FENCE.—*

20 *(A) IN GENERAL.—The Secretary of the*  
21 *Army shall continue to allow the Secretary of the*  
22 *Interior to maintain the fence shown on the Map*  
23 *until such time as the Secretary of the Interior*  
24 *determines that the fence is unnecessary for the*  
25 *management of the National Park.*

1                   (B) *REMOVAL.*—If the Secretary of the Inte-  
2                   rior determines that the fence is unnecessary for  
3                   the management of the National Park under sub-  
4                   paragraph (A), the Secretary of the Interior shall  
5                   promptly remove the fence at the expense of the  
6                   Department of the Interior.

7                   (e) *RESEARCH.*—The Secretary of the Army and the  
8                   Secretary of the Interior may enter into an agreement to  
9                   allow the Secretary of the Interior to conduct certain re-  
10                  search in the area identified as “Cooperative Use Research  
11                  Area” on the Map.

12                  (f) *MILITARY MUNITIONS AND MUNITIONS DEBRIS.*—

13                         (1) *RESPONSE ACTION.*—With respect to any  
14                         Federal liability, the Secretary of the Army shall re-  
15                         main responsible for any response action addressing  
16                         military munitions or munitions debris on the land  
17                         transferred under subsection (a) to the same extent as  
18                         on the day before the date of enactment of this Act.

19                         (2) *INVESTIGATION OF MILITARY MUNITIONS AND*  
20                         *MUNITIONS DEBRIS.*—

21                                 (A) *IN GENERAL.*—The Secretary of the In-  
22                                 terior may request that the Secretary of the  
23                                 Army conduct one or more investigations of  
24                                 military munitions or munitions debris on any  
25                                 land transferred under subsection (a).

1           (B) *ACCESS.*—*The Secretary of the Interior*  
2           *shall give access to the Secretary of the Army to*  
3           *the land covered by a request under subpara-*  
4           *graph (A) for the purposes of conducting an in-*  
5           *vestigation under that subparagraph.*

6           (C) *LIMITATION.*—*An investigation con-*  
7           *ducted under this paragraph shall be subject to*  
8           *available appropriations.*

9           (3) *APPLICABLE LAW.*—*Any activities under-*  
10          *taken under this subsection shall be carried out in ac-*  
11          *cordance with—*

12                 (A) *the Comprehensive Environmental Re-*  
13                 *sponse, Compensation, and Liability Act of 1980*  
14                 *(42 U.S.C. 9601 et seq.);*

15                 (B) *the purposes for which the National*  
16                 *Park was established; and*

17                 (C) *any other applicable law.*

18 **SEC. 2866. BOUNDARY MODIFICATIONS RELATED TO THE**

19                         **NATIONAL PARK AND MISSILE RANGE.**

20           (a) *NATIONAL PARK.*—

21                 (1) *IN GENERAL.*—*The boundary of the National*  
22                 *Park is revised to reflect the boundary depicted on the*  
23                 *Map.*

24                 (2) *MAP.*—

1           (A) *IN GENERAL.*—*The Secretary of the In-*  
2           *terior, in coordination with the Secretary of the*  
3           *Army, shall prepare and keep on file for public*  
4           *inspection in the appropriate office of the Sec-*  
5           *retary of the Interior a map and a legal descrip-*  
6           *tion of the revised boundary of the National*  
7           *Park.*

8           (B) *EFFECT.*—*The map and legal descrip-*  
9           *tion under subparagraph (A) shall have the same*  
10          *force and effect as if included in this Act, except*  
11          *that the Secretary of the Interior may correct*  
12          *clerical and typographical errors in the map and*  
13          *legal description.*

14          (3) *BOUNDARY SURVEY.*—*As soon as practicable*  
15          *after the date of the establishment of the National*  
16          *Park and subject to the availability of funds, the Sec-*  
17          *retary of the Interior shall complete an official bound-*  
18          *ary survey of the National Park.*

19          (b) *MISSILE RANGE.*—

20                 (1) *IN GENERAL.*—*The boundary of the Missile*  
21                 *Range and the Public Land Order are modified to ex-*  
22                 *clude the land transferred to the Secretary of the Inte-*  
23                 *rior under subsection (a) of section 2865 and to in-*  
24                 *clude the land transferred to the Secretary of the*  
25                 *Army under subsection (b) of such section.*

1           (2) *MAP.*—*The Secretary of the Interior shall*  
2           *prepare a map and legal description depicting the re-*  
3           *vised boundary of the Missile Range.*

4           (c) *CONFORMING AMENDMENT.*—*Section 2854 of the*  
5           *National Defense Authorization Act for Fiscal Year 1997*  
6           *(Public Law 104–201; 54 U.S.C. 320301 note), relating to*  
7           *the modification of boundaries of the Monument and the*  
8           *Missile Range, is repealed.*

9                           ***Subtitle G—Other Matters***

10       ***SEC. 2871. INSTALLATION AND MAINTENANCE OF FIRE EX-***  
11                           ***TINGUISHERS IN DEPARTMENT OF DEFENSE***  
12                           ***FACILITIES.***

13           *The Secretary of Defense shall ensure that portable fire*  
14           *extinguishers are installed and maintained in all Depart-*  
15           *ment of Defense facilities in accordance with requirements*  
16           *of national model fire codes developed by the National Fire*  
17           *Protection Association and the International Code Council*  
18           *that require redundancy and extinguishers throughout occu-*  
19           *pancies regardless of the presence of other suppression sys-*  
20           *tems or alarm systems.*

1 **SEC. 2872. DEFINITION OF COMMUNITY INFRASTRUCTURE**  
2 **FOR PURPOSES OF MILITARY BASE REUSE**  
3 **STUDIES AND COMMUNITY PLANNING AS-**  
4 **SISTANCE.**

5 *Paragraph (4) of section 2391(e) of title 10, United*  
6 *States Code, is amended to read as follows:*

7 *“(4)(A) The term ‘community infrastructure’*  
8 *means a project or facility described in subparagraph*  
9 *(B) that—*

10 *“(i) is located off of a military installation;*

11 *and*

12 *“(ii) is—*

13 *“(I) owned by a State or local govern-*  
14 *ment; or*

15 *“(II) a not-for-profit, member owned*  
16 *utility service.*

17 *“(B) A project or facility described in this sub-*  
18 *paragraph is any of the following:*

19 *“(i) Any transportation project.*

20 *“(ii) A school, hospital, police, fire, emer-*  
21 *gency response, or other community support fa-*  
22 *cility.*

23 *“(iii) A water, waste-water, telecommuni-*  
24 *cations, electric, gas, or other utility infrastruc-*  
25 *ture project.”.*

1 **SEC. 2873. REPORT ON VULNERABILITIES FROM SEA LEVEL**  
2 **RISE TO CERTAIN MILITARY INSTALLATIONS**  
3 **LOCATED OUTSIDE THE CONTINENTAL**  
4 **UNITED STATES.**

5 (a) *REPORT REQUIRED.*—Not later than one year  
6 after the date of the enactment of this Act, the Secretary  
7 of Defense shall submit to the Committees on Armed Serv-  
8 ices of the Senate and the House of Representatives a report  
9 on vulnerabilities from sea level rise to covered installations  
10 located outside of the continental United States.

11 (b) *CONTENTS.*—For each covered installation, the re-  
12 port required by subsection (a) shall include the following:

13 (1) *An analysis of the impacts to the operations,*  
14 *contingency plans, and readiness of such installation*  
15 *from a sea level rise.*

16 (2) *A discussion of mitigation efforts, including*  
17 *dredging, reclaiming land, and island building, that*  
18 *may be necessary due to a sea level rise—*

19 (A) *to ensure the continued operational via-*  
20 *bility of such installation; and*

21 (B) *to increase the resiliency of such instal-*  
22 *lation.*

23 (3) *The estimated costs of the efforts discussed*  
24 *under paragraph (2).*

1           (4) *An identification of alternative locations for*  
2           *the continuance of operations of such installation if*  
3           *such installation is rendered inoperable.*

4           (c) *FORM.—The report required under subsection (a)*  
5           *shall be submitted in unclassified form, but may contain*  
6           *a classified annex.*

7           (d) *COVERED INSTALLATION DEFINED.—In this sec-*  
8           *tion, the term “covered installation” means the following*  
9           *military installations:*

10           (1) *Naval Support Facility Diego Garcia.*

11           (2) *Ronald Reagan Ballistic Missile Defense Test*  
12           *Site.*

13   **SEC. 2874. BLACK START EXERCISES AT JOINT BASES.**

14           (a) *REQUIREMENT.—Not later than September 30,*  
15           *2020, the Secretary of Defense shall conduct a black start*  
16           *exercise at three Joint Bases at which such exercise has not*  
17           *previously been conducted, for the purpose of identifying*  
18           *any shortcomings in infrastructure, joint operations, joint*  
19           *coordination, and security that would result from a loss of*  
20           *power at the site.*

21           (b) *REPORT.—Not later than June 1, 2020, the Sec-*  
22           *retary of Defense shall submit to the congressional defense*  
23           *committees a report that contains a discussion of lessons*  
24           *learned from black start exercises conducted by the Sec-*  
25           *retary of Defense during the period beginning with the first*

1 *such exercise and ending on December 31, 2019, including*  
2 *the three most recurring issues identified as a result of such*  
3 *exercises with respect to infrastructure, joint coordination*  
4 *efforts, and security.*

5 *(c) BLACK START EXERCISE DEFINED.—In this sec-*  
6 *tion, the term “black start exercise” means, with respect to*  
7 *a military installation, an exercise in which commercial*  
8 *utility power at the installation is dropped before backup*  
9 *generation assets start, for the purpose of—*

10 *(1) testing the ability of the backup systems to*  
11 *start, transfer the load, and carry the load until com-*  
12 *mercial power is restored;*

13 *(2) aligning stakeholders on critical energy re-*  
14 *quirements to meet mission requirements;*

15 *(3) validating mission operation plans, such as*  
16 *continuity of operations plans;*

17 *(4) identifying infrastructure interdependencies;*  
18 *and*

19 *(5) verifying backup electric power system per-*  
20 *formance.*

1 **TITLE XXIX—OVERSEAS CONTIN-**  
 2 **GENY OPERATIONS MILI-**  
 3 **TARY CONSTRUCTION**

4 **SEC. 2901. AUTHORIZED ARMY CONSTRUCTION AND LAND**  
 5 **ACQUISITION PROJECTS.**

6 (a) *AUTHORIZATION.*—Subject to subsection (b), the  
 7 Secretary of the Army may acquire real property and carry  
 8 out the military construction projects for the installations  
 9 outside the United States, and in the amounts, set forth  
 10 in the following table:

*Army: Outside the United States*

<b>Country</b>	<b>Location</b>	<b>Amount</b>
<i>Cuba .....</i>	<i>Guantanamo Bay Naval Station .....</i>	<i>\$33,800,000</i>
<i>Unspecified Europe .....</i>	<i>European Deterrence Initiative: Various Locations</i>	<i>\$98,342,000</i>

11 (b) *REPORT REQUIRED AS CONDITION OF AUTHORIZA-*  
 12 *TION.*—Not later than 90 days after the date of the enact-  
 13 ment of this Act, the Secretary of the Army shall submit  
 14 to the congressional defense committees a report containing  
 15 a plan to carry out each military construction project au-  
 16 thorized in the final item in the table in subsection (a) for  
 17 an unspecified location for the European Deterrence Initia-  
 18 tive. The plan shall include a Department of Defense Form  
 19 1391 for each proposed project. The Secretary may not com-  
 20 mence a project until the report has been submitted.

1 **SEC. 2902. AUTHORIZED NAVY CONSTRUCTION AND LAND**  
 2 **ACQUISITION PROJECTS.**

3 (a) *AUTHORIZATION.*—Subject to subsection (b), the  
 4 Secretary of the Navy may acquire real property and carry  
 5 out the military construction projects for the installations  
 6 outside the United States, and in the amounts, set forth  
 7 in the following table:

*Navy: Outside the United States*

<b>Country</b>	<b>Location</b>	<b>Amount</b>
<i>Bahrain</i> .....	<i>SW Asia</i> .....	<i>\$53,360,000</i>
<i>Italy</i> .....	<i>Sigonella</i> .....	<i>\$77,400,000</i>
<i>Spain</i> .....	<i>Rota</i> .....	<i>\$69,570,000</i>
<i>Unspecified Europe</i> .....	<i>European Deterrence Initiative: Various Locations</i>	<i>\$56,246,000</i>

8 (b) *REPORT REQUIRED AS CONDITION OF AUTHORIZA-*  
 9 *TION.*—Not later than 90 days after the date of the enact-  
 10 ment of this Act, the Secretary of the Navy shall submit  
 11 to the congressional defense committees a report containing  
 12 a plan to carry out each military construction project au-  
 13 thorized in the final item in the table in subsection (a) for  
 14 an unspecified location for the European Deterrence Initia-  
 15 tive. The plan shall include a Department of Defense Form  
 16 1391 for each proposed project. The Secretary may not com-  
 17 mence a project until the report has been submitted.

18 **SEC. 2903. AUTHORIZED AIR FORCE CONSTRUCTION AND**  
 19 **LAND ACQUISITION PROJECTS.**

20 (a) *AUTHORIZATION.*—Subject to subsection (b), the  
 21 Secretary of the Air Force may acquire real property and  
 22 carry out the military construction projects for the installa-

1 tions outside the United States, and in the amounts, set  
 2 forth in the following table:

**Air Force: Outside the United States**

<b>Country</b>	<b>Location</b>	<b>Amount</b>
<i>Iceland</i> .....	<i>Keflavik</i> .....	\$57,000,000
<i>Jordan</i> .....	<i>Azraq</i> .....	\$66,000,000
<i>Spain</i> .....	<i>Moron</i> .....	\$8,500,000
<i>Unspecified Europe</i> .....	<i>European Deterrence Initiative: Various</i> .....	\$231,246,000

3           **(b) REPORT REQUIRED AS CONDITION OF AUTHORIZA-**  
 4 **TION.**—Not later than 90 days after the date of the enact-  
 5 ment of this Act, the Secretary of the Air Force shall submit  
 6 to the congressional defense committees a report containing  
 7 a plan to carry out each military construction project au-  
 8 thorized in the final item in the table in subsection (a) for  
 9 an unspecified location for the European Deterrence Initia-  
 10 tive. The plan shall include a Department of Defense Form  
 11 1391 for each proposed project. The Secretary may not com-  
 12 mence a project until the report has been submitted.

13 **SEC. 2904. AUTHORIZED DEFENSE AGENCIES CONSTRUC-**  
 14 **TION AND LAND ACQUISITION PROJECTS.**

15           The Secretary of Defense may acquire real property  
 16 and carry out the military construction project for the in-  
 17 stallation outside the United States, and in the amount,  
 18 set forth in the following table:

**Defense Agencies: Outside the United States**

<b>Country</b>	<b>Location</b>	<b>Amount</b>
<i>Germany</i> .....	<i>Germersheim</i> .....	\$46,000,000

1 **SEC. 2905. AUTHORIZATION OF APPROPRIATIONS.**

2 *Funds are hereby authorized to be appropriated for fis-*  
 3 *cal years beginning after September 30, 2019, for the mili-*  
 4 *tary construction projects outside the United States author-*  
 5 *ized by this title as specified in the funding table in section*  
 6 *4602.*

7 **TITLE XXX—AUTHORIZATION OF**  
 8 **EMERGENCY MILITARY CON-**  
 9 **STRUCTION**

10 **SEC. 3001. AUTHORIZATION OF EMERGENCY NAVY CON-**  
 11 **STRUCTION AND LAND ACQUISITION**  
 12 **PROJECTS.**

13 *Pursuant to section 2802 of title 10, United States*  
 14 *Code, the following real property acquisition and military*  
 15 *construction projects, including planning and design re-*  
 16 *lated to military construction projects, in the following*  
 17 *amounts, are authorized:*

***Navy Authorization***

<b><i>State or Location</i></b>	<b><i>Installation or Location</i></b>	<b><i>Project</i></b>	<b><i>Amount</i></b>
<i>North Carolina .....</i>	<i>Camp Lejeune .....</i>	<i>Various construction .....</i>	<i>\$967,210,000</i>
	<i>Marine Corps Air Station Cherry Point .....</i>	<i>Various Construction .....</i>	<i>\$175,456,000</i>
<i>Unspecified Worldwide</i>	<i>Unspecified Worldwide Locations .....</i>	<i>Planning and Design .....</i>	<i>\$68,282,000</i>

1 **SEC. 3002. AUTHORIZATION OF EMERGENCY AIR FORCE**  
 2 **CONSTRUCTION AND LAND ACQUISITION**  
 3 **PROJECTS.**

4 (a) *AIR FORCE AUTHORIZATION.*—Subject to sub-  
 5 section (b), pursuant to section 2802 of title 10, United  
 6 States Code, the following real property acquisition and  
 7 military construction projects, in the following amounts,  
 8 are authorized:

***Air Force Authorization***

<b><i>State</i></b>	<b><i>Installation or Location</i></b>	<b><i>Project</i></b>	<b><i>Amount</i></b>
<i>Florida</i> .....	<i>Tyndall Air Force Base</i> .....	<i>Various Construction</i> .....	\$735,752,000
<i>Nebraska</i> .....	<i>Offutt Air Force Base</i> .....	<i>Various Construction</i> .....	\$300,000,000

9 (b) *REPORT REQUIRED AS CONDITION OF AUTHORIZA-*  
 10 *TION.*—Not later than 90 days after the date of the enact-  
 11 ment of this Act, the Secretary of the Air Force shall submit  
 12 to the Committees on Armed Services of the House of Rep-  
 13 resentatives and the Senate a report containing a plan to  
 14 carry out the military construction projects authorized by  
 15 this section. The plan shall include an explanation of how  
 16 each military construction project will incorporate mitiga-  
 17 tion measures that reduce the threat from extreme weather  
 18 events, mean sea level fluctuation, flooding, and any other  
 19 known environmental threat to resilience, including a list  
 20 of any areas in which there is a variance from the local  
 21 building requirements and an explanation of the reason for

1 *the variance. The plan shall also include a Department of*  
 2 *Defense Form 1391 for each proposed project. The Secretary*  
 3 *may not commence a project until the report required from*  
 4 *the Secretary has been submitted.*

5 **SEC. 3003. AUTHORIZATION OF EMERGENCY ARMY NA-**  
 6 **TIONAL GUARD AND ARMY RESERVE CON-**  
 7 **STRUCTION AND LAND ACQUISITION**  
 8 **PROJECTS.**

9 (a) *ARMY NATIONAL GUARD AUTHORIZATION.—Pur-*  
 10 *suant to section 2802 of title 10, United States Code, the*  
 11 *following real property acquisition and military construc-*  
 12 *tion projects, in the following amounts, are authorized:*

**Army National Guard Authorization**

<b>State</b>	<b>Installation or Location</b>	<b>Project</b>	<b>Amount</b>
<i>Florida .....</i>	<i>Panama City .....</i>	<i>National Guard Readiness Center ...</i>	<i>\$25,000,000</i>
<i>North Carolina .....</i>	<i>Military Training Area Fort Fisher .....</i>	<i>General Purpose Administrative Building .....</i>	<i>\$25,000,000</i>

13 (b) *ARMY RESERVE AUTHORIZATION.—Pursuant to*  
 14 *section 2805 of title 10, United States Code, unspecified*  
 15 *minor construction, in the amount set forth in the following*  
 16 *table, is authorized:*

**Army Reserve Authorization**

<b>Country</b>	<b>Installation or Location</b>	<b>Project</b>	<b>Amount</b>
<i>Unspecified Worldwide</i>	<i>Unspecified Worldwide Locations .....</i>	<i>Unspecified Minor Construction .....</i>	<i>\$3,300,000</i>

1 ***DIVISION C—DEPARTMENT OF***  
2 ***ENERGY NATIONAL SECURITY***  
3 ***AUTHORIZATIONS AND***  
4 ***OTHER AUTHORIZATIONS***  
5 ***TITLE XXXI—DEPARTMENT OF***  
6 ***ENERGY NATIONAL SECURITY***  
7 ***PROGRAMS***  
8 ***Subtitle A—National Security***  
9 ***Programs and Authorizations***

10 ***SEC. 3101. NATIONAL NUCLEAR SECURITY ADMINISTRA-***  
11 ***TION.***

12 *(a) AUTHORIZATION OF APPROPRIATIONS.—Funds are*  
13 *hereby authorized to be appropriated to the Department of*  
14 *Energy for fiscal year 2020 for the activities of the National*  
15 *Nuclear Security Administration in carrying out programs*  
16 *as specified in the funding table in section 4701.*

17 *(b) AUTHORIZATION OF NEW PLANT PROJECTS.—*  
18 *From funds referred to in subsection (a) that are available*  
19 *for carrying out plant projects, the Secretary of Energy*  
20 *may carry out new plant projects for the National Nuclear*  
21 *Security Administration as follows:*

22 *Project 15–D–301, High Explosive Science and*  
23 *Engineering Facility, Pantex Plant, Amarillo, Texas,*  
24 *\$123,000,000.*

1           *Project 15–D–611, Emergency Operations Cen-*  
2           *ter, Sandia National Laboratories, Albuquerque, New*  
3           *Mexico, \$4,000,000.*

4           *Project 15–D–612, Emergency Operations Cen-*  
5           *ter, Lawrence Livermore National Laboratory, Liver-*  
6           *more, California, \$5,000,000.*

7           *Project 18–D–150, Surplus Plutonium Disposi-*  
8           *tion, Savannah River Site, Aiken, South Carolina,*  
9           *\$79,000,000.*

10          *Project 18–D–650, Tritium Finishing Facility,*  
11          *Savannah River Site, Aiken, South Carolina,*  
12          *\$27,000,000.*

13          *Project 19–D–670, 138k Power Transmission*  
14          *System Replacement, Nevada National Security Site,*  
15          *Mercury, Nevada, \$6,000,000.*

16          *Project 20–D–931, KL Fuel Development Lab-*  
17          *oratory, Knolls Atomic Power Laboratory, Schenec-*  
18          *tady, New York, \$23,700,000.*

19   **SEC. 3102. DEFENSE ENVIRONMENTAL CLEANUP.**

20          *Funds are hereby authorized to be appropriated to the*  
21          *Department of Energy for fiscal year 2020 for defense envi-*  
22          *ronmental cleanup activities in carrying out programs as*  
23          *specified in the funding table in section 4701.*

1 **SEC. 3103. OTHER DEFENSE ACTIVITIES.**

2 *Funds are hereby authorized to be appropriated to the*  
3 *Department of Energy for fiscal year 2020 for other defense*  
4 *activities in carrying out programs as specified in the fund-*  
5 *ing table in section 4701.*

6 **SEC. 3104. NUCLEAR ENERGY.**

7 *Funds are hereby authorized to be appropriated to the*  
8 *Department of Energy for fiscal year 2020 for nuclear en-*  
9 *ergy as specified in the funding table in section 4701.*

10 **Subtitle B—Program Authoriza-**  
11 **tions, Restrictions, Limitations,**  
12 **and Other Matters**

13 **SEC. 3111. PERSONNEL LEVELS OF THE OFFICE OF THE AD-**  
14 **MINISTRATOR FOR NUCLEAR SECURITY.**

15 *(a) PERSONNEL LEVELS.—*

16 *(1) INCREASE.—Subsection (a) of section 3241A*  
17 *of the National Nuclear Security Administration Act*  
18 *(50 U.S.C. 2441a) is amended by striking “1,690”*  
19 *both places it appears and inserting “1,890”.*

20 *(2) TECHNICAL AMENDMENTS.—Such subsection*  
21 *is further amended—*

22 *(A) in paragraph (1), by striking “By Octo-*  
23 *ber 1, 2015, the” and inserting “The”; and*

24 *(B) in paragraph (2), by striking “2016”*  
25 *and inserting “2020”.*

1       (b) *REPORTS ON SERVICE SUPPORT CONTRACTS.*—

2       Subsection (f) of such section is amended—

3               (1) *in the matter preceding paragraph (1), by*  
4       *striking “as of the date of the report” and inserting*  
5       *“for the most recent fiscal year for which data is*  
6       *available”;* and

7               (2) *by striking paragraph (5) and inserting the*  
8       *following new paragraphs:*

9               “(5) *With respect to each contract identified*  
10       *under paragraph (2)—*

11               “(A) *identification of each appropriations*  
12       *account that supports the contract; and*

13               “(B) *the amount obligated under the con-*  
14       *tract during the fiscal year, listed by each such*  
15       *account.*

16               “(6) *With respect to each appropriations account*  
17       *identified under paragraph (5)(A), the total amount*  
18       *obligated for contracts identified under paragraph*  
19       *(2).”.*

20       **SEC. 3112. OFFICE OF COST ESTIMATING AND PROGRAM**  
21               **EVALUATION.**

22       (a) *SENSE OF CONGRESS.*—*It is the sense of Congress*  
23       *that Congress is concerned that the staffing levels of the Of-*  
24       *fice of Cost Estimating and Program Evaluation of the Na-*

1 *tional Nuclear Security Administration have been persist-*  
2 *ently below the authorized level.*

3 (b) *REPORTING.*—Section 3221(b)(1) of the National  
4 *Nuclear Security Administration Act (50 U.S.C.*  
5 *2411(b)(1)) is amended by adding at the end the following*  
6 *new sentence: “The Director shall report directly to the Ad-*  
7 *ministrator.”.*

8 (c) *BRIEFING.*—Not later than 180 days after the date  
9 of the enactment of this Act, the Administrator for Nuclear  
10 Security shall provide to the congressional defense commit-  
11 tees a briefing on the plan of the Administrator to fully  
12 staff the Office of Cost Estimating and Program Evaluation  
13 of the National Nuclear Security Administration pursuant  
14 to section 3221(f) of the National Nuclear Security Admin-  
15 istration Act (50 U.S.C. 2411(f)).

16 **SEC. 3113. CLARIFICATION OF CERTAIN STOCKPILE RE-**  
17 **SPONSIVENESS PROGRAM OBJECTIVES.**

18 Section 4220(c) of the Atomic Energy Defense Act (50  
19 U.S.C. 2538b(c)) is amended—

20 (1) in paragraph (3), by striking “capabilities  
21 required, including prototypes” and inserting “capa-  
22 bilities as required, such as through the use of proto-  
23 types”; and

24 (2) in paragraph (6)—

1           (A) by striking “in consultation with the  
2           Director of National Intelligence” and inserting  
3           “in coordination with the Director of National  
4           Intelligence”; and

5           (B) by inserting “if needed to meet intel-  
6           ligence requirements” after “foreign countries”.

7   **SEC. 3114. MODIFICATION TO PLUTONIUM PIT PRODUCTION**  
8           **CAPACITY.**

9           (a) *FINDING AND SENSE OF CONGRESS.*—

10           (1) *FINDING.*—Congress finds that a recent study  
11           by the Institute of Defense Analyses notes, “a key  
12           milestone will be achieving the Plutonium  
13           Sustainment Program goal of 30 pits per year at Los  
14           Alamos National Laboratory”.

15           (2) *SENSE OF CONGRESS.*—It is the sense of  
16           Congress that the National Nuclear Security Admin-  
17           istration should prioritize achieving production of 30  
18           pits per year at Los Alamos National Laboratory and  
19           ensure that efforts to design and construct a second  
20           site do not divert resources, including personnel and  
21           funding, from Los Alamos National Laboratory.

22           (b) *2027 REQUIREMENT.*—Section 4219 of the Atomic  
23           Energy Defense Act (50 U.S.C. 2538a) is amended—

24           (1) in subsection (a)—



1 **SEC. 3116. REPEAL OF LIMITATION ON AVAILABILITY OF**  
2 **FUNDS FOR ACCELERATION OF NUCLEAR**  
3 **WEAPONS DISMANTLEMENT.**

4 *Section 3125 of the National Defense Authorization*  
5 *Act for Fiscal Year 2017 (Public Law 114–328; 130 Stat.*  
6 *2766) is repealed.*

7 **SEC. 3117. ELIMINATION OF LIMITATION ON AVAILABILITY**  
8 **OF FUNDS RELATING TO SUBMISSION OF AN-**  
9 **NUAL REPORTS ON UNFUNDED PRIORITIES.**

10 *Section 4716 of the Atomic Energy Defense Act (50*  
11 *U.S.C. 2756) is amended—*

12 *(1) by striking subsection (c); and*

13 *(2) by redesignating subsection (d) as subsection*  
14 *(c).*

15 **SEC. 3118. PROGRAM FOR RESEARCH AND DEVELOPMENT**  
16 **OF ADVANCED NAVAL NUCLEAR FUEL SYS-**  
17 **TEM BASED ON LOW-ENRICHED URANIUM.**

18 *(a) ESTABLISHMENT.—Not later than 60 days after*  
19 *the date of the enactment of this Act, the Administrator for*  
20 *Nuclear Security shall establish a program to assess the via-*  
21 *bility of using low-enriched uranium in naval nuclear pro-*  
22 *pulsion reactors, including such reactors located on aircraft*  
23 *carriers and submarines, that meet the requirements of the*  
24 *Navy.*

25 *(b) ACTIVITIES.—In carrying out the program under*  
26 *subsection (a), the Administrator shall carry out activities*

1 *to develop an advanced naval nuclear fuel system based on*  
2 *low-enriched uranium, including activities relating to—*

3 *(1) down-blending of high-enriched uranium into*  
4 *low-enriched uranium;*

5 *(2) manufacturing of candidate advanced low-*  
6 *enriched uranium fuels;*

7 *(3) irradiation tests and post-irradiation exam-*  
8 *ination of these fuels; and*

9 *(4) modification or procurement of equipment*  
10 *and infrastructure relating to such activities.*

11 *(c) REPORT.—Not later than 120 days after the date*  
12 *of the enactment of this Act, the Administrator shall submit*  
13 *to the congressional defense committees a plan outlining the*  
14 *activities the Administrator will carry out under the pro-*  
15 *gram established under subsection (a), including the fund-*  
16 *ing requirements associated with developing a low-enriched*  
17 *uranium fuel.*

18 **SEC. 3119. REPLACEMENT OF W78 WARHEAD.**

19 *(a) ANALYSIS OF ALTERNATIVES.—*

20 *(1) IN GENERAL.—The Administrator for Nu-*  
21 *clear Security shall conduct an analysis of alter-*  
22 *natives with respect to replacing the W78 warhead.*  
23 *Such analysis shall describe the technical risks and*  
24 *costs for each option to replace the W78 warhead.*

1           (2) *REVIEW.*—*The Director for Cost Estimating*  
2           *and Program Evaluation of the National Nuclear Se-*  
3           *curity Administration shall review the analysis of al-*  
4           *ternatives under paragraph (1).*

5           (3) *REPORT.*—*Not later than 150 days after the*  
6           *date of the enactment of this Act, the Administrator*  
7           *shall submit to the congressional defense committees a*  
8           *report on the replacement of the W78 warhead. Such*  
9           *report shall include the analysis of alternatives under*  
10          *paragraph (1) and the review under paragraph (2).*

11          (b) *LIMITATION.*—*Of the funds authorized to be appro-*  
12          *priated by this Act or otherwise made available for fiscal*  
13          *year 2020 for the National Nuclear Security Administra-*  
14          *tion for the modernization of the W78 warhead, not more*  
15          *than 75 percent may be obligated or expended until the date*  
16          *on which the report is submitted under subsection (a)(3).*

17          (c) *INDEPENDENT STUDY.*—

18                 (1) *IN GENERAL.*—*The Administrator shall seek*  
19                 *to enter into an arrangement with the private sci-*  
20                 *entific advisory group known as JASON to conduct*  
21                 *a study of the plan of the Administrator to replace*  
22                 *the W78 warhead. Such study shall include—*

23                         (A) *an assessment of the risks to certifi-*  
24                         *cation; and*

1           (B) *the need for planned upgrades to such*  
2           *warhead.*

3           (2) *SUBMISSION.—Not later than 150 days after*  
4           *the date of the enactment of this Act, the Adminis-*  
5           *trator shall submit to the congressional defense com-*  
6           *mittees the study under paragraph (1), without*  
7           *change.*

8   **SEC. 3120. NATIONAL LABORATORY JOBS ACCESS PRO-**  
9           **GRAM.**

10          (a) *IN GENERAL.—Not later than 180 days after the*  
11          *date of enactment of this Act, the Secretary may establish*  
12          *a program known as the “Department of Energy National*  
13          *Lab Jobs ACCESS Program”, under which the Secretary*  
14          *may award, on a competitive basis, 5-year grants to eligible*  
15          *entities described in subsection (c) for the Federal share of*  
16          *the costs of technical, skills-based preapprenticeship and ap-*  
17          *prenticeship programs that provide employer-driven or rec-*  
18          *ognized postsecondary credentials during the grant period.*

19          (b) *REQUIREMENTS.—A program funded by a grant*  
20          *awarded under this section shall develop and deliver cus-*  
21          *tomized and competency-based training that—*

22                  (1) *leads to recognized postsecondary credentials*  
23                  *for secondary school and postsecondary students;*

24                  (2) *is focused on skills and qualifications needed,*  
25                  *as determined by the Department of Energy in con-*

1        *sultation with the national laboratories, to meet the*  
2        *immediate and on-going needs of traditional and*  
3        *emerging technician positions (including machinists*  
4        *and cyber security technicians) at the National Lab-*  
5        *oratories and covered facilities of the National Nu-*  
6        *clear Security Administration;*

7            (3)        *creates an apprenticeship or*  
8        *preapprenticeship program in consultation with a*  
9        *National Laboratory or covered facility of the Na-*  
10        *tional Nuclear Security Administration; and*

11            (4)        *creates an apprenticeship or*  
12        *preapprenticeship program registered with and ap-*  
13        *proved by the Secretary of Labor or a State Appren-*  
14        *ticeship Agency.*

15        (c) *ELIGIBLE ENTITIES.*—*An entity that is eligible to*  
16        *receive a grant under this section shall be a workforce inter-*  
17        *mediary or an eligible sponsor of a preapprenticeship or*  
18        *an apprenticeship program that—*

19            (1)        *demonstrates experience in implementing*  
20        *and providing career planning and career pathways*  
21        *towards apprenticeship or preapprenticeship pro-*  
22        *grams;*

23            (2)(A)        *has a relationship with a National Lab-*  
24        *oratory or covered facility of the National Nuclear Se-*  
25        *curity Administration;*

1           (B) has knowledge of technician workforce needs  
2 of such laboratory or facility and the associated secu-  
3 rity requirements of such laboratory or facility; and

4           (C) is eligible to enter into an agreement with  
5 such laboratory or facility that would be paid for in  
6 part or entirely from grant funds received under this  
7 section;

8           (3) demonstrates the ability to recruit and sup-  
9 port individuals who plan to work in relevant techni-  
10 cian positions upon the successful completion of such  
11 programs;

12           (4) provides students who complete such pro-  
13 grams with a recognized postsecondary credential,  
14 such as a journeyman craft license or an industry-  
15 recognized certification;

16           (5) uses a customized training curriculum that  
17 is specifically aligned with employers, utilizing work-  
18 place learning advisors and on-the-job training to the  
19 greatest extent possible; and

20           (6) demonstrates successful outcomes connecting  
21 graduates of such programs to careers relevant to such  
22 programs.

23           (d) *APPLICATIONS.*—An eligible entity seeking a grant  
24 under this section shall submit to the Secretary an applica-

1 *tion at such time, in such manner, and containing such*  
2 *information as the Secretary may require.*

3 *(e) PRIORITY.—In selecting eligible entities to receive*  
4 *grants under this section, the Secretary shall prioritize an*  
5 *eligible entity that—*

6 *(1) is a member of an industry or sector part-*  
7 *nership;*

8 *(2) provides the training described in subsection*  
9 *(b)—*

10 *(A) at an institution of higher education*  
11 *(such as a community college) that includes*  
12 *basic science, technology, and mathematics edu-*  
13 *cation in the curriculum;*

14 *(B) through an apprenticeship program*  
15 *that was registered with the Department of*  
16 *Labor or a State Apprenticeship Agency before*  
17 *the date on which the eligible entity applies for*  
18 *the grant under subsection (d); or*

19 *(C) with respect to a preapprenticeship pro-*  
20 *gram, at a local educational agency, a secondary*  
21 *school, a provider of adult education, an area ca-*  
22 *reer and technical education school, or an appro-*  
23 *priate community facility;*

24 *(3) works with the Secretary of Defense, Sec-*  
25 *retary of Veteran Affairs, or veterans organizations to*

1        *transition members of the Armed Forces and veterans*  
2        *to apprenticeship or preapprenticeship programs in a*  
3        *relevant sector;*

4            (4) *plans to use the grant to carry out the train-*  
5        *ing described in subsection (b) with an entity that re-*  
6        *ceives State funding or is operated by a State agency;*  
7        *and*

8            (5) *plans to use the grant to carry out the train-*  
9        *ing described in subsection (b) for—*

10            (A) *young adults ages 16 to 29, inclusive; or*

11            (B) *individuals with barriers to employ-*  
12        *ment.*

13        (f) *ADDITIONAL CONSIDERATION.—In making grants*  
14        *under this section, the Secretary shall consider regional di-*  
15        *versity.*

16        (g) *LIMITATION ON APPLICATIONS.—An eligible entity*  
17        *may not submit, either individually or as part of a joint*  
18        *application, more than 1 application for a grant under this*  
19        *section during any 1 fiscal year.*

20        (h) *LIMITATIONS ON AMOUNT OF GRANT.—The*  
21        *amount of a grant provided under this section for any 24-*  
22        *month period of the 5-year grant period shall not exceed*  
23        *\$500,000.*

24        (i) *NON-FEDERAL SHARE.—The non-Federal share of*  
25        *the cost of a customized training program carried out using*

1 *a grant under this section shall be not less than 25 percent*  
2 *of the total cost of the program.*

3 (j) *TECHNICAL ASSISTANCE.—The Secretary may pro-*  
4 *vide technical assistance to eligible entities described in sub-*  
5 *section (c) to leverage the existing job training and edu-*  
6 *cation programs of the Department of Labor and other rel-*  
7 *evant programs at appropriate Federal agencies.*

8 (k) *REPORT.—*

9 (1) *IN GENERAL.—Not less than once every 2*  
10 *years, the Secretary of Labor shall submit to Con-*  
11 *gress, and make publicly available on the website of*  
12 *the Department of Labor, a report on the program es-*  
13 *tablished under this section, including—*

14 (A) *a description of—*

15 (i) *any entity that receives a grant*  
16 *under this section;*

17 (ii) *any activity carried out using the*  
18 *grants under this section; and*

19 (iii) *best practices used to leverage the*  
20 *investment of the Federal Government*  
21 *under this section; and*

22 (B) *an assessment of the results achieved by*  
23 *the program established under this section, in-*  
24 *cluding the rate of employment for participants*  
25 *after completing a job training and education*

1            *program carried out using a grant under this*  
2            *section.*

3            (2) *PROVISION OF INFORMATION.*—*The Secretary*  
4            *of Energy shall provide such information as necessary*  
5            *to the Secretary of Labor for purposes of the report*  
6            *under paragraph (1).*

7            (3) *PERFORMANCE REPORTS.*—*Not later than*  
8            *one year after the start of a new apprenticeship or*  
9            *preapprenticeship program established under this sec-*  
10           *tion, and annually thereafter, the entity carrying out*  
11           *the programs shall submit to the Secretary of Labor*  
12           *a report on the effectiveness of the program based on*  
13           *the accountability measures described in clauses (i)*  
14           *and (ii) of section 116(b)(2)(A) of the Workforce Inno-*  
15           *vation and Opportunity Act (29 U.S.C.*  
16           *3141(b)(2)(A)).*

17           (l) *DEFINITIONS.*—*In this section:*

18           (1) *ESEA TERMS.*—*The terms “local educational*  
19           *agency” and “secondary school” have the meanings*  
20           *given the terms in section 8101 of the Elementary*  
21           *and Secondary Education Act of 1965 (20 U.S.C.*  
22           *7801).*

23           (2) *WIOA TERMS.*—*The terms “career plan-*  
24           *ning”, “community-based organization”, “customized*  
25           *training”, “economic development agency”, “indi-*

1 *vidual with a barrier to employment*”, “*industry or*  
2 *sector partnership*”, “*on-the-job training*”, “*recog-*  
3 *nized postsecondary credential*”, and “*workplace*  
4 *learning advisor*” have the meanings given such terms  
5 *in section 3 of the Workforce Innovation and Oppor-*  
6 *tunity Act (29 U.S.C. 3102).*

7 (3) *APPRENTICESHIP.*—*The term “apprentice-*  
8 *ship” means an apprenticeship registered under the*  
9 *Act of August 16, 1937 (commonly known as the “Na-*  
10 *tional Apprenticeship Act”;* 50 Stat. 664, chapter  
11 *663; 29 U.S.C. 50 et seq.).*

12 (4) *AREA CAREER AND TECHNICAL EDUCATION*  
13 *SCHOOL.*—*The term “area career and technical edu-*  
14 *cation school” has the meaning given the term in sec-*  
15 *tion 3 of the Carl D. Perkins Career and Technical*  
16 *Education Act of 2006 (20 U.S.C. 2302).*

17 (5) *COMMUNITY COLLEGE.*—*The term “commu-*  
18 *nity college” has the meaning given the term “junior*  
19 *or community college” in section 312(f) of the Higher*  
20 *Education Act of 1965 (20 U.S.C. 1058(f)).*

21 (6) *COVERED FACILITY OF THE NATIONAL NU-*  
22 *CLEAR SECURITY ADMINISTRATION.*—*The term “cov-*  
23 *ered facility of the National Nuclear Security Admin-*  
24 *istration” means a national security laboratory or a*  
25 *nuclear weapons production facility as such terms are*

1 *defined in section 4002 of the Atomic Energy Defense*  
2 *Act (50 U.S.C. 2501).*

3 (7) *ELIGIBLE SPONSOR.—The term “eligible*  
4 *sponsor” means a public organization or an organi-*  
5 *zation described in section 501(c) of the Internal Rev-*  
6 *enue Code of 1986 and exempt from tax under section*  
7 *501(a) of that Code, that—*

8 (A) *with respect to an apprenticeship pro-*  
9 *gram, administers such program through a part-*  
10 *nership that may include—*

11 (i) *an industry or sector partnership;*

12 (ii) *an employer or industry associa-*  
13 *tion;*

14 (iii) *a labor-management organization;*

15 (iv) *a local workforce development*  
16 *board or State workforce development board;*

17 (v) *a 2- or 4-year institution of higher*  
18 *education that offers an educational pro-*  
19 *gram leading to an associate’s or bachelor’s*  
20 *degree in conjunction with a certificate of*  
21 *completion of apprenticeship;*

22 (vi) *the Armed Forces (including the*  
23 *National Guard and Reserves);*

24 (vii) *a community-based organization;*

25 *or*

1                   (viii) *an economic development agency;*

2                   *and*

3                   (B) *with respect to a preapprenticeship pro-*  
4                   *gram, is a local educational agency, a secondary*  
5                   *school, an area career and technical education*  
6                   *school, a provider of adult education, a State*  
7                   *workforce development board, a local workforce*  
8                   *development board, or a community-based orga-*  
9                   *nization, that administers such program with*  
10                   *any required coordination and necessary approv-*  
11                   *als from the Secretary of Labor or a State de-*  
12                   *partment of labor.*

13                   (8) *INSTITUTION OF HIGHER EDUCATION.—The*  
14                   *term “institution of higher education” has the mean-*  
15                   *ing given the term in section 101 of the Higher Edu-*  
16                   *cation Act of 1965 (20 U.S.C. 1001).*

17                   (9) *LOCAL WORKFORCE DEVELOPMENT BOARD.—*  
18                   *The term “local workforce development board” has the*  
19                   *meaning given the term “local board” in section 3 of*  
20                   *the Workforce Innovation and Opportunity Act (29*  
21                   *U.S.C. 3102).*

22                   (10) *NATIONAL LABORATORY.—The term “Na-*  
23                   *tional Laboratory” has the meaning given the term in*  
24                   *section 2 of the Energy Policy Act of 2005 (42 U.S.C.*  
25                   *15801).*

1           (11) *PROVIDER OF ADULT EDUCATION.*—The  
2 term “provider of adult education” has the meaning  
3 given that term in section 203 of the *Adult Education*  
4 *and Literacy Act* (29 U.S.C. 3272).

5           (12) *RELATED INSTRUCTION.*—The term “related  
6 instruction” means an organized and systematic form  
7 of instruction designed to provide an apprentice with  
8 the knowledge of the technical subjects related to the  
9 occupation of the apprentice.

10          (13) *SECRETARY.*—The term “Secretary” means  
11 the Secretary of Energy, in consultation with the Sec-  
12 retary of Labor, except as otherwise specified in this  
13 Act.

14          (14) *STATE WORKFORCE DEVELOPMENT*  
15 *BOARD.*—The term “State workforce development  
16 board” has the meaning given the term “State board”  
17 in section 3 of the *Workforce Innovation and Oppor-*  
18 *tunity Act* (29 U.S.C. 3102).

19          (15) *WORKFORCE INTERMEDIARY.*—The term  
20 “workforce intermediary”—

21               (A) means an organization that proactively  
22 addresses workforce needs using a dual customer  
23 approach, which considers the needs of both em-  
24 ployees and employers; and

1           (B) may include a community organiza-  
 2           tion, an employer organization, a community  
 3           college, a temporary staffing agency, a State  
 4           workforce development board, a local workforce  
 5           development board, or a labor organization.

6   **TITLE       XXXII—DEFENSE       NU-**  
 7       **CLEAR   FACILITIES   SAFETY**  
 8       **BOARD**

9   **SEC. 3201. AUTHORIZATION.**

10       There are authorized to be appropriated for fiscal year  
 11   2020, \$29,450,000 for the operation of the Defense Nuclear  
 12   Facilities Safety Board under chapter 21 of the Atomic En-  
 13   ergy Act of 1954 (42 U.S.C. 2286 et seq.).

14   **SEC. 3202. IMPROVEMENTS TO DEFENSE NUCLEAR FACILI-**  
 15       **TIES SAFETY BOARD.**

16       (a) *STAFF.*—

17           (1) *SENSE OF CONGRESS.*—It is the sense of  
 18       Congress that the Defense Nuclear Facilities Safety  
 19       Board is not adequately staffed, particularly given  
 20       the ongoing increase in defense nuclear activities dur-  
 21       ing the decade following the date of the enactment of  
 22       this Act.

23           (2) *EXECUTIVE DIRECTOR OF OPERATIONS.*—

24           (A) *ESTABLISHMENT OF POSITION.*—Sub-  
 25       section (b) of section 313 of the Atomic Energy

1           *Act of 1954 (42 U.S.C. 2286b) is amended by*  
2           *adding at the end the following new paragraph:*

3           “(3)(A) *The Board shall have an Executive Director*  
4 *of Operations who shall be appointed under section*  
5 *311(c)(7).*

6           “(B) *The Executive Director of Operations shall report*  
7 *to the Chairman.*

8           “(C) *The Executive Director of Operations shall be the*  
9 *senior employee of the Board responsible for—*

10           *“(i) general administration and technical mat-*  
11 *ters;*

12           *“(ii) ensuring that the members of the Board are*  
13 *fully and currently informed with respect to matters*  
14 *for which the members are responsible; and*

15           *“(iii) the functions delegated by the Chairman*  
16 *pursuant to section 311(c)(3)(B).”.*

17           (B) *DELEGATION OF FUNCTIONS.—Para-*  
18 *graph (3) of section 311(c) of such Act (42*  
19 *U.S.C. 2286(c)) is amended—*

20           *(i) by striking “The Chairman” and*  
21 *inserting “(A) The Chairman”; and*

22           *(ii) by adding at the end the following*  
23 *new subparagraph:*

1       “(B) In carrying out subparagraph (A), the Chairman  
2 shall delegate to the Executive Director of Operations estab-  
3 lished under section 313(b)(3) the following functions:

4               “(i) Administrative functions of the Board.

5               “(ii) Appointment and supervision of employees  
6 of the Board not specified under paragraph (7).

7               “(iii) Distribution of business among the em-  
8 ployees and administrative units and offices of the  
9 Board.

10              “(iv) Preparation of—

11                      “(I) proposals for the reorganization of the  
12 administrative units or offices of the Board;

13                      “(II) the budget estimate for the Board; and

14                      “(III) the proposed distribution of funds ac-  
15 cording to purposes approved by the Board.”.

16              (3) APPOINTMENT AND REMOVAL POWERS.—

17 Paragraph (7) of such section 311(c) is amended to  
18 read as follows:

19              “(7)(A) The Chairman, subject to the approval of the  
20 Board, shall appoint the senior employees described in sub-  
21 paragraph (C). Any member of the Board may propose to  
22 the Chairman an individual to be so appointed.

23              “(B) The Chairman, subject to the approval of the  
24 Board, may remove a senior employee described in subpara-

1 *graph (C). Any member of the Board may propose to the*  
2 *Chairman an individual to be so removed.*

3 “(C) *The senior employees described in this subpara-*  
4 *graph are the following senior employees of the Board:*

5 “(i) *The Executive Director of Operations estab-*  
6 *lished under section 313(b)(3).*

7 “(ii) *The general counsel.*”

8 (4) *FULL-TIME EQUIVALENT PERSONNEL LEV-*  
9 *ELS.—Section 313(b)(1)(A) of such Act (42 U.S.C.*  
10 *2286b(b)(1)(A)) is amended by striking “but not” and*  
11 *all that follows through the semicolon and inserting*  
12 *“but not fewer than the equivalent of 110 full-time*  
13 *employees and not more than the equivalent of 130*  
14 *full-time employees;”.*

15 (b) *PUBLIC HEALTH AND SAFETY.—Section 312(a) of*  
16 *such Act (42 U.S.C. 2286a(a)) is amended by inserting be-*  
17 *fore the period at the end the following: “, including with*  
18 *respect to the health and safety of employees and contractors*  
19 *at such facilities”.*

20 (c) *ACCESS TO FACILITIES, PERSONNEL, AND INFOR-*  
21 *MATION.—Section 314 of such Act (42 U.S.C. 2286c) is*  
22 *amended—*

23 (1) *in subsection (a)—*

1           (A) by striking “*The Secretary of Energy*”  
2           and inserting “*Except as specifically provided*  
3           *by this section, the Secretary of Energy*”;

4           (B) by striking “*ready access*” both places it  
5           appears and inserting “*prompt and unfettered*  
6           *access*”; and

7           (C) by adding at the end the following new  
8           sentence: “*The access provided to facilities, per-*  
9           *sonnel, and information under this subsection*  
10           *shall be provided without regard to the hazard or*  
11           *risk category assigned to a facility by the Sec-*  
12           *retary.*”; and

13           (2) by striking subsection (b) and inserting the  
14           following new subsections:

15           “(b) *AUTHORITY OF SECRETARY DENY INFORMA-*  
16           *TION.—The Secretary may only deny access to information*  
17           *pursuant to subsection (a)—*

18                   “(1) *to any person who—*

19                           “(A) *has not been granted an appropriate*  
20                           *security clearance or access authorization by the*  
21                           *Secretary; or*

22                           “(B) *does not need such access in connection*  
23                           *with the duties of such person; or*

1           “(2) if such denial is authorized by a provision  
2           of Federal law that specifically limits the right of the  
3           Board to access such information.

4           “(c) *APPLICATION OF NONDISCLOSURE PROTECTIONS*  
5 *BY BOARD.*—The Board may not publicly disclose informa-  
6 tion provided under this section if such information is oth-  
7 erwise protected from disclosure by law, including delibera-  
8 tive process information.”.

9                           **TITLE XXXIV—NAVAL**  
10                          **PETROLEUM RESERVES**

11 **SEC. 3401. AUTHORIZATION OF APPROPRIATIONS.**

12           (a) *AMOUNT.*—There are hereby authorized to be ap-  
13 propriated to the Secretary of Energy \$14,000,000 for fiscal  
14 year 2020 for the purpose of carrying out activities under  
15 chapter 869 of title 10, United States Code, relating to the  
16 naval petroleum reserves.

17           (b) *PERIOD OF AVAILABILITY.*—Funds appropriated  
18 pursuant to the authorization of appropriations in sub-  
19 section (a) shall remain available until expended.

1                   **TITLE XXXV—MARITIME**  
2                                   **MATTERS**  
3                                   **Subtitle A—Maritime**  
4                                   **Administration**

5   **SEC. 3501. AUTHORIZATION OF THE MARITIME ADMINIS-**  
6                                   **TRATION.**

7           *There are authorized to be appropriated to the Depart-*  
8   *ment of Transportation for fiscal year 2020, to be available*  
9   *without fiscal year limitation if so provided in appropria-*  
10 *tions Acts, for programs associated with maintaining the*  
11 *United States merchant marine, the following amounts:*

12                   (1) *For expenses necessary for operations of the*  
13   *United States Merchant Marine Academy,*  
14   *\$81,944,000, of which—*

15                           (A) *\$77,944,000 shall be for Academy oper-*  
16                           *ations; and*

17                           (B) *\$4,000,000 shall remain available until*  
18                           *expended for capital asset management at the*  
19                           *Academy.*

20                   (2) *For expenses necessary to support the State*  
21   *maritime academies, \$38,480,000, of which—*

22                           (A) *\$2,400,000 shall remain available until*  
23                           *September 30, 2020, for the Student Incentive*  
24                           *Program;*

1           (B) \$30,080,000 shall remain available  
2           until expended for maintenance and repair of  
3           State maritime academy training vessels; and

4           (C) \$6,000,000 shall remain available until  
5           expended for direct payments to such academies.

6           (3) For expenses necessary to support the Na-  
7           tional Security Multi-Mission Vessel Program,  
8           \$300,000,000, which shall remain available until ex-  
9           pended.

10          (4) For expenses necessary to support Maritime  
11          Administration operations and programs,  
12          \$53,273,000.

13          (5) For expenses necessary to dispose of vessels in  
14          the National Defense Reserve Fleet, \$5,000,000, which  
15          shall remain available until expended.

16          (6) For expenses necessary to maintain and pre-  
17          serve a United States flag merchant marine to serve  
18          the national security needs of the United States under  
19          chapter 531 of title 46, United States Code,  
20          \$300,000,000.

21          (7) For expenses necessary for the loan guarantee  
22          program authorized under chapter 537 of title 46,  
23          United States Code, \$33,000,000, of which—

24                  (A) \$30,000,000 may be used for the cost  
25                  (as defined in section 502(5) of the Federal Cred-

1           *it Reform Act of 1990 (2 U.S.C. 661a(5)) of*  
2           *loan guarantees under the program; and*

3                     *(B) \$3,000,000 may be used for administra-*  
4           *tive expenses relating to loan guarantee commit-*  
5           *ments under the program.*

6           *(8) For expenses necessary to provide small ship-*  
7           *yards and maritime communities grants under sec-*  
8           *tion 54101 of title 46, United States Code,*  
9           *\$35,000,000.*

10 **SEC. 3502. REAUTHORIZATION OF MARITIME SECURITY**  
11                     **PROGRAM.**

12           *(a) AWARD OF OPERATING AGREEMENTS.—Section*  
13           *53103 of title 46, United States Code, is amended by strik-*  
14           *ing “2025” each place it appears and inserting “2035”.*

15           *(b) EFFECTIVENESS OF OPERATING AGREEMENTS.—*  
16           *Section 53104(a) of title 46, United States Code, is amend-*  
17           *ed by striking “2025” and inserting “2035”.*

18           *(c) PAYMENTS.—Section 53106(a)(1) of title 46,*  
19           *United States Code, is amended—*

20                     *(1) in subparagraph (B), by striking “and”;*

21                     *(2) in subparagraph (C), by striking*  
22           *“\$3,700,000 for each of fiscal years 2022, 2023, 2024,*  
23           *and 2025.” and inserting “\$5,300,000 for each of fis-*  
24           *cal years 2022, 2023, 2024, and 2025; and”;* and

1           (3) *by adding at the end the following new sub-*  
2 *paragraphs:*

3                   “(D) \$5,800,000 for each of fiscal years  
4 2026, 2027, and 2028;

5                   “(E) \$6,300,000 for each of fiscal years  
6 2029, 2030, and 2031; and

7                   “(F) \$6,800,000 for each of fiscal years  
8 2032, 2033, 2034, and 2035.”.

9           (d) *AUTHORIZATION OF APPROPRIATIONS.*—Section  
10 53111 of title 46, United States Code, is amended—

11                   (1) *in paragraph (2), by striking “and”;*

12                   (2) *in paragraph (3), by striking “\$222,000,000*  
13 *for each fiscal year thereafter through fiscal year*  
14 *2025.” and inserting “\$318,000,000 for each of fiscal*  
15 *years 2022, 2023, 2024, and 2025;”;* and

16                   (3) *by adding at the end the following new para-*  
17 *graphs:*

18                   “(4) \$348,000,000 for each of fiscal years 2026,  
19 2027, and 2028;

20                   “(5) \$378,000,000 for each of fiscal years 2029,  
21 2030, and 2031; and

22                   “(6) \$408,000,000 for each of fiscal years 2032,  
23 2033, 2034, and 2035.”.

1 **SEC. 3503. MARITIME OCCUPATIONAL SAFETY AND HEALTH**  
2 **ADVISORY COMMITTEE.**

3 *Section 7 of the Occupational Safety and Health Act*  
4 *of 1970 (29 U.S.C. 656) is amended by adding at the end*  
5 *the following:*

6 *“(d) There is established a Maritime Occupational*  
7 *Safety and Health Advisory Committee, which shall be a*  
8 *continuing body and shall provide advice to the Secretary*  
9 *in formulating maritime industry standards and regarding*  
10 *matters pertaining to the administration of this Act related*  
11 *to the maritime industry. The composition of such advisory*  
12 *committee shall be consistent with the advisory committees*  
13 *established under subsection (b). A member of the advisory*  
14 *committee who is otherwise qualified may continue to serve*  
15 *until a successor is appointed. The Secretary may promul-*  
16 *gate or amend regulations as necessary to implement this*  
17 *subsection.”.*

18 ***Subtitle B—Tanker Security Fleet***

19 **SEC. 3511. TANKER SECURITY FLEET.**

20 *(a) IN GENERAL.—Subtitle VII of title 46, United*  
21 *States Code, is amended by adding at the end the following:*

22 **“CHAPTER 707—TANKER SECURITY FLEET**

*“70701. Definitions.*

*“70702. Establishment of the Tanker Security Fleet.*

*“70703. Vessel standards.*

*“70704. Award of operating agreements.*

*“70705. Effectiveness of operating agreements.*

*“70706. Obligations and rights under operating agreements.*

*“70707. Payments.*

“70708. *National security requirements.*

“70709. *Regulatory relief.*

“70710. *Special rule regarding age of participating Fleet vessels.*

“70711. *Regulations.*

“70712. *Authorization of appropriations.*

“70713. *Acquisition of Fleet vessels.*

1 **“§ 70701. Definitions**

2       *“In this chapter:*

3               *“(1) FOREIGN COMMERCE.—The term ‘foreign*  
4 *commerce’ means—*

5                       *“(A) commerce or trade between the United*  
6 *States, its territories or possessions, or the Dis-*  
7 *trict of Columbia, and a foreign country; and*

8                       *“(B) commerce or trade between foreign*  
9 *countries including trade between foreign ports*  
10 *in accordance with normal commercial bulk*  
11 *shipping practices in such a manner as will per-*  
12 *mit vessels of the United States freely to compete*  
13 *with foreign-flag liquid bulk carrying vessels in*  
14 *their operation or in competing charters, subject*  
15 *to rules and regulations promulgated by the Sec-*  
16 *retary of Transportation pursuant to this chap-*  
17 *ter or subtitle.*

18               *“(2) PARTICIPATING FLEET VESSEL.—The term*  
19 *‘participating Fleet vessel’ means any tank vessel cov-*  
20 *ered by an operating agreement under this chapter on*  
21 *or after January 1, 2021.*

1           “(3) *PERSON.*—*The term ‘person’ includes cor-*  
2           *porations, partnerships, and associations existing*  
3           *under, or authorized by, laws of the United States, or*  
4           *any State, territory, district, or possession thereof, or*  
5           *any foreign country.*

6           “(4) *TANK VESSEL.*—*The term ‘tank vessel’ has*  
7           *the meaning that term has under section 2101 of this*  
8           *title.*

9           “(5) *UNITED STATES CITIZEN TRUST.*—*The term*  
10          *‘United States citizen trust’—*

11            “(A) *means a trust for which—*

12              “(i) *each of the trustees is a citizen of*  
13              *the United States; and*

14              “(ii) *the application for documentation*  
15              *of the vessel under chapter 121 of this title*  
16              *includes an affidavit of each trustee stating*  
17              *that the trustee is not aware of any reason*  
18              *involving a beneficiary of the trust that is*  
19              *not a citizen of the United States, or involv-*  
20              *ing any other person who is not a citizen*  
21              *of the United States, as a result of which*  
22              *the beneficiary or other person would hold*  
23              *more than 25 percent of the aggregate power*  
24              *to influence or limit the exercise of the au-*  
25              *thority of the trustee with respect to matters*

1           *involving any ownership or operation of the*  
2           *vessel that may adversely affect the interests*  
3           *of the United States;*

4           “(B) does not include a trust for which any  
5           person that is not a citizen of the United States  
6           has authority to direct, or participate in direct-  
7           ing, a trustee for a trust in matters involving  
8           any ownership or operation of the vessel that  
9           may adversely affect the interests of the United  
10          States or in removing a trustee without cause,  
11          either directly or indirectly through the control  
12          of another person, unless the trust instrument  
13          provides that persons who are not citizens of the  
14          United States may not hold more than 25 per-  
15          cent of the aggregate authority to so direct or re-  
16          move a trustee; and

17          “(C) may include a trust for which a per-  
18          son who is not a citizen of the United States  
19          holds more than 25 percent of the beneficial in-  
20          terest in the trust.

21       **“§ 70702. Establishment of the Tanker Security Fleet**

22           “(a) *IN GENERAL.*—The Secretary of Transportation,  
23       *in consultation with the Secretary of Defense, shall establish*  
24       *a fleet of active, commercially viable, militarily useful, pri-*  
25       *vately owned product tankers to meet national defense and*

1 *other security requirements and maintain a United States*  
2 *presence in international commercial shipping. The fleet*  
3 *shall consist of privately owned vessels of the United States*  
4 *for which there are in effect operating agreements under this*  
5 *chapter, and shall be known as the ‘Tanker Security Fleet’*  
6 *(hereinafter in this chapter referred to as the ‘Fleet’).*

7       “(b) *VESSEL ELIGIBILITY.*—*A vessel is eligible to be*  
8 *included in the Fleet if the vessel—*

9               “(1) *meets the requirements under paragraph*  
10 *(1), (2), (3), or (4) of subsection (c);*

11               “(2) *is operated (or in the case of a vessel to be*  
12 *constructed, will be operated) in providing transpor-*  
13 *tation in United States foreign commerce;*

14               “(3) *is self-propelled;*

15               “(4) *is not more than ten years of age on the*  
16 *date the vessel is first included in the Fleet and not*  
17 *more than 25 years of age at any time during which*  
18 *the vessel is included in the Fleet;*

19               “(5) *is determined by the Secretary of Defense to*  
20 *be suitable for use by the United States for national*  
21 *defense or military purposes in time of war or na-*  
22 *tional emergency; and*

23               “(6) *is commercially viable, as determined by the*  
24 *Secretary of Transportation; and*

25               “(7) *is—*

1           “(A) a vessel of the United States; or

2           “(B) not a vessel of the United States, but—

3                 “(i) the owner of the vessel has dem-  
4                 onstrated an intent to have the vessel docu-  
5                 mented under chapter 121 of this title if it  
6                 is included in the Fleet; and

7                 “(ii) at the time an operating agree-  
8                 ment is entered into under this chapter, the  
9                 vessel is eligible for documentation under  
10                chapter 121 of this title.

11           “(c) *REQUIREMENTS REGARDING CITIZENSHIP OF*  
12 *OWNERS, CHARTERERS, AND OPERATORS.—*

13                 “(1) *VESSELS OWNED AND OPERATED BY SEC-*  
14 *TION 50501 CITIZENS.—A vessel meets the require-*  
15 *ments of this paragraph if, during the period of an*  
16 *operating agreement under this chapter that applies*  
17 *to the vessel, the vessel will be owned and operated by*  
18 *one or more persons that are citizens of the United*  
19 *States under section 50501 of this title.*

20                 “(2) *VESSELS OWNED BY A SECTION 50501 CIT-*  
21 *IZEN, OR UNITED STATES CITIZEN TRUST, AND CHAR-*  
22 *TERED TO A DOCUMENTATION CITIZEN.—A vessel*  
23 *meets the requirements of this paragraph if—*

1           “(A) during the period of an operating  
2 agreement under this chapter that applies to the  
3 vessel, the vessel will be—

4           “(i) owned by a person that is a cit-  
5 izen of the United States under section  
6 50501 of this title or that is a United States  
7 citizen trust; and

8           “(ii) demise chartered to a person—

9           “(I) that is eligible to document  
10 the vessel under chapter 121 of this  
11 title;

12           “(II) the chairman of the board of  
13 directors, chief executive officer, and a  
14 majority of the members of the board of  
15 directors of which are citizens of the  
16 United States under section 50501 of  
17 this title, and are appointed and sub-  
18 jected to removal only upon approval  
19 by the Secretary; and

20           “(III) that certifies to the Sec-  
21 retary that there are no treaties, stat-  
22 utes, regulations, or other laws that  
23 would prohibit the owner or operator  
24 for the vessel from performing its obli-

1                    *gations under an operating agreement*  
2                    *under this chapter;*

3                    *“(B) in the case of a vessel that will be de-*  
4                    *mise chartered to a person that is owned or con-*  
5                    *trolled by another person that is not a citizen of*  
6                    *the United States under section 50501 of this*  
7                    *title, the other person enters into an agreement*  
8                    *with the Secretary not to influence the operation*  
9                    *of the vessel in a manner that will adversely af-*  
10                    *fect the interests of the United States; and*

11                    *“(C) the Secretary of Transportation and*  
12                    *the Secretary of Defense notify the Committee on*  
13                    *Armed Services and the Committee on Com-*  
14                    *merce, Science, and Transportation of the Senate*  
15                    *and the Committee on Armed Services and the*  
16                    *Committee on Transportation and Infrastructure*  
17                    *of the House of Representatives that the Secre-*  
18                    *taries concur with the certification required*  
19                    *under subparagraph (A)(ii)(III), and have re-*  
20                    *viewed and agree that there are no legal, oper-*  
21                    *ational, or other impediments that would pro-*  
22                    *hibit the owner or operator for the vessel from*  
23                    *performing its obligations under an operating*  
24                    *agreement under this chapter.*

1           “(3) *VESSELS OWNED AND OPERATED BY A DE-*  
2           *FENSE OWNER OR OPERATOR.*—*A vessel meets the re-*  
3           *quirements of this paragraph if—*

4                   “(A) *during the period of an operating*  
5                   *agreement under this chapter that applies to the*  
6                   *vessel, the vessel will be owned and operated by*  
7                   *a person that—*

8                           “(i) *is eligible to document a vessel*  
9                           *under chapter 121 of this title;*

10                           “(ii) *operates or manages other vessels*  
11                           *of the United States for the Secretary of De-*  
12                           *fense, or charters other vessels to the Sec-*  
13                           *retary of Defense;*

14                           “(iii) *has entered into a special secu-*  
15                           *rity agreement for the purpose of this para-*  
16                           *graph with the Secretary of Defense;*

17                           “(iv) *makes the certification described*  
18                           *in paragraph (2)(A)(i)(III); and*

19                           “(v) *in the case of a vessel described in*  
20                           *paragraph (2)(B), enters into an agreement*  
21                           *referred to in that subparagraph; and*

22                   “(B) *the Secretary of Transportation and*  
23                   *the Secretary of Defense notify the Committee on*  
24                   *Armed Services and the Committee on Com-*  
25                   *merce, Science, and Transportation of the Senate*

1           *and the Committee on Armed Services and the*  
2           *Committee on Transportation and Infrastructure*  
3           *of the House of Representatives that they concur*  
4           *with the certification required under subpara-*  
5           *graph (A)(iv), and have reviewed and agree that*  
6           *there are no legal, operational, or other impedi-*  
7           *ments that would prohibit the owner or operator*  
8           *for the vessel from performing its obligations*  
9           *under an operating agreement under this chap-*  
10          *ter.*

11           “(4) *VESSELS OWNED BY DOCUMENTATION CITI-*  
12          *ZENS AND CHARTERED TO SECTION 50501 CITIZENS.—*  
13          *A vessel meets the requirements of this paragraph if,*  
14          *during the period of an operating agreement under*  
15          *this chapter, the vessel will be—*

16                   “(A) *owned by a person who is eligible to*  
17                   *document a vessel under chapter 121 of this title;*  
18                   *and*

19                   “(B) *demise chartered to a person that is a*  
20                   *citizen of the United States under section 50501*  
21                   *of this title.*

22           “(d) *REQUEST BY SECRETARY OF DEFENSE.—The*  
23          *Secretary of Defense shall request that the Commandant of*  
24          *the Coast Guard issue any waiver under section 501 of this*

1 *title that the Secretary of Defense determines is necessary*  
2 *for purposes of this chapter.*

3 “(e) *VESSEL STANDARDS.*—

4 “(1) *CERTIFICATE OF INSPECTION.*—*A vessel*  
5 *used to provide oceangoing transportation that the*  
6 *Commandant of the Coast Guard determines meets*  
7 *the criteria of subsection (b) but which, on the date*  
8 *of enactment of this section, is not documented under*  
9 *chapter 121 of this title, shall be eligible for a certifi-*  
10 *cate of inspection if the Commandant of the Coast*  
11 *Guard determines that—*

12 “(A) *the vessel is classed by and designed in*  
13 *accordance with the rules of the American Bu-*  
14 *reau of Shipping, or another classification soci-*  
15 *ety accepted by the Commandant of the Coast*  
16 *Guard;*

17 “(B) *the vessel complies with applicable*  
18 *international agreements and associated guide-*  
19 *lines, as determined by the country in which the*  
20 *vessel was documented immediately before becom-*  
21 *ing documented under chapter 121 of this title;*  
22 *and*

23 “(C) *the country has not been identified by*  
24 *the Commandant of the Coast Guard as inad-*

1           *equately enforcing international vessel regula-*  
2           *tions as to that vessel.*

3           “(2) *RELIANCE ON CLASSIFICATION SOCIETY.*—

4                   “(A) *IN GENERAL.*—*The Commandant of*  
5           *the Coast Guard may rely on a certification*  
6           *from the American Bureau of Shipping or, sub-*  
7           *ject to subparagraph (B), another classification*  
8           *society accepted by the Commandant of the Coast*  
9           *Guard, to establish that a vessel is in compliance*  
10           *with the requirements of paragraph (1).*

11                   “(B) *FOREIGN CLASSIFICATION SOCIETY.*—  
12           *The Secretary may accept certification from a*  
13           *foreign classification society under subparagraph*  
14           *(A) only—*

15                           “(i) *to the extent that the government*  
16                           *of the foreign country in which the society*  
17                           *is headquartered provides access on a recip-*  
18                           *rocal basis to the American Bureau of Ship-*  
19                           *ping; and*

20                                   “(ii) *if the foreign classification society*  
21                                   *has offices and maintains records in the*  
22                                   *United States.*

23   **“§ 70703. Vessel standards**

24           “(a) *CERTIFICATE OF INSPECTION.*—*A vessel used to*  
25   *provide transportation service as a common carrier that the*

1 *Secretary of Transportation determines meets the criteria*  
2 *of section 53102(b) of this title, which on the date of enact-*  
3 *ment of this section is not a documented vessel (as that term*  
4 *is defined in section 106 of this title), shall be eligible for*  
5 *a certificate of inspection if the Secretary determines that—*

6           “(1) *the vessel is classed by and designed in ac-*  
7 *cordance with the rules of the American Bureau of*  
8 *Shipping or another classification society accepted by*  
9 *the Secretary;*

10           “(2) *the vessel complies with applicable inter-*  
11 *national agreements and associated guidelines, as de-*  
12 *termined by the country in which the vessel was docu-*  
13 *mented immediately before becoming a documented*  
14 *vessel (as defined in that section); and*

15           “(3) *that country has not been identified by the*  
16 *Secretary as inadequately enforcing international ves-*  
17 *sel regulations as to that vessel.*

18           “(b) *CONTINUED ELIGIBILITY FOR CERTIFICATE.—*  
19 *Subsection (a) does not apply to any vessel that has failed*  
20 *to comply with the applicable international agreements and*  
21 *association guidelines referred to in subsection (a)(2).*

22           “(c) *RELIANCE ON CLASSIFICATION SOCIETY.—*

23           “(1) *IN GENERAL.—The Secretary may rely on*  
24 *a certification from the American Bureau of Ship-*  
25 *ping or, subject to paragraph (2), another classifica-*

1        *tion society accepted by the Secretary, to establish*  
2        *that a vessel is in compliance with the requirements*  
3        *of subsections (a) and (b).*

4            “(2) *FOREIGN CLASSIFICATION SOCIETY.—The*  
5        *Secretary may accept certification from a foreign*  
6        *classification society under paragraph (1) only—*

7            “(A) *to the extent that the government of the*  
8        *foreign country in which the society is*  
9        *headquartered provides access on a reciprocal*  
10       *basis to the American Bureau of Shipping; and*

11           “(B) *if the foreign classification society has*  
12       *offices and maintains records in the United*  
13       *States.*

14        **“§ 70704. Award of operating agreements**

15           “(a) *IN GENERAL.—The Secretary of Transportation*  
16       *shall require, as a condition of including any vessel in the*  
17       *Fleet, that the owner or operator of the vessel enter into*  
18       *an operating agreement with the Secretary under this sec-*  
19       *tion.*

20           “(b) *PROCEDURE FOR APPLICATIONS.—*

21           “(1) *PARTICIPATING FLEET VESSELS.—*

22           “(A) *IN GENERAL.—The Secretary of*  
23       *Transportation shall accept an application for*  
24       *an operating agreement for a participating Fleet*  
25       *vessel under the priority under paragraph (2)*

1           *only from a person that has authority to enter*  
2           *into an operating agreement under this chapter.*

3           “(B) *VESSEL UNDER DEMISE CHARTER.—*  
4           *For purposes of subparagraph (A), in the case of*  
5           *a vessel that is subject to a demise charter that*  
6           *terminates by its own terms on September 30,*  
7           *2035 (without giving effect to any extension pro-*  
8           *vided therein for completion of a voyage or to ef-*  
9           *fect the actual redelivery of the vessel), or that is*  
10           *terminable at the will of the owner of the vessel*  
11           *after such date, only the owner of the vessel shall*  
12           *be treated as having the authority referred to in*  
13           *subparagraph (A).*

14           “(C) *VESSEL OWNED BY A UNITED STATES*  
15           *CITIZEN TRUST.—For purposes of subparagraph*  
16           *(B), in the case of a vessel owned by a United*  
17           *States citizen trust, the term ‘owner of the vessel’*  
18           *includes the beneficial owner of the vessel with*  
19           *respect to such trust.*

20           “(2) *DISCRETION WITHIN PRIORITY.—The Sec-*  
21           *retary of Transportation—*

22           “(A) *may award operating agreements*  
23           *under paragraph (1) according to such priorities*  
24           *as the Secretary considers appropriate; and*

1           “(B) shall award operating agreements  
2           within any such priority—

3                   “(i) in accordance with operational re-  
4                   quirements specified by the Secretary of De-  
5                   fense;

6                   “(ii) in the case of operating agree-  
7                   ments awarded under subparagraph (B) of  
8                   paragraph (1), according to applicants’  
9                   records of owning and operating vessels;  
10                  and

11                  “(iii) subject to approval of the Sec-  
12                  retary of Defense.

13           “(c) *LIMITATION.*—For any fiscal year, the Secretary  
14           may not award operating agreements under this chapter  
15           that require payments under section 70707 of this title for  
16           more than 10 vessels.

17   **“§ 70705. Effectiveness of operating agreements**

18           “(a) *IN GENERAL.*—Subject to the availability of ap-  
19           propriations for such purpose, the Secretary of Transpor-  
20           tation may enter into an operating agreement under this  
21           chapter for fiscal year 2021 and any subsequent fiscal year.  
22           Each such agreement may be renewed annually for up to  
23           seven years.

24           “(b) *VESSELS UNDER CHARTER TO THE UNITED*  
25           *STATES.*—The owner or operator of a vessel under charter

1 *to the United States is eligible to receive payments pursuant*  
2 *to any operating agreement that covers such vessel.*

3 “(c) *TERMINATION.*—

4 “(1) *TERMINATION BY SECRETARY FOR LACK OF*  
5 *OWNER OR OPERATOR COMPLIANCE.*—*If the owner or*  
6 *operator with respect to an operating agreement ma-*  
7 *terially fails to comply with the terms of the agree-*  
8 *ment—*

9 “(A) *the Secretary shall notify the owner or*  
10 *operator and provide a reasonable opportunity*  
11 *to comply with the operating agreement; and*

12 “(B) *the Secretary shall terminate the oper-*  
13 *ating agreement if the owner or operator fails to*  
14 *achieve such compliance.*

15 “(2) *TERMINATION BY OWNER OR OPERATOR.*—

16 “(A) *IN GENERAL.*—*If an owner or operator*  
17 *provides notice of the intent to terminate an op-*  
18 *erating agreement under this chapter on a date*  
19 *specified by not later than 60 days prior to such*  
20 *date, such agreement shall terminate on the date*  
21 *specified by the owner or operator.*

22 “(B) *REPLACEMENT.*—*An operating agree-*  
23 *ment with respect to a vessel shall terminate on*  
24 *the date that is three years after the date on*

1           *which the vessel begins operating under the*  
2           *agreement, if—*

3                     *“(i) the owner or operator notifies the*  
4                     *Secretary, by not later than two years after*  
5                     *the date the vessel begins operating under*  
6                     *the agreement, that the owner or operator*  
7                     *intends to terminate the agreement under*  
8                     *this subparagraph; and*

9                     *“(ii) the Secretary of Transportation,*  
10                    *in coordination with the Secretary of De-*  
11                    *fense, determines that—*

12                             *“(I) an application for an oper-*  
13                             *ating agreement under this chapter has*  
14                             *been received for a replacement vessel*  
15                             *that is acceptable to the Secretaries;*  
16                             *and*

17                             *“(II) during the period of an op-*  
18                             *erating agreement under this chapter*  
19                             *that applies to the replacement vessel,*  
20                             *the replacement vessel will be—*

21                                     *“(aa) owned and operated by*  
22                                     *one or more persons that are citi-*  
23                                     *zens of the United States under*  
24                                     *section 50501 of this title; or*

1                   “(bb) owned by a person who  
2                   is eligible to document the vessel  
3                   under chapter 121 of this title,  
4                   and operated by a person that is  
5                   a citizen of the United States  
6                   under section 50501 of this title.

7                   “(d) *NONRENEWAL FOR LACK OF FUNDS.*—

8                   “(1) *IN GENERAL.*—If sufficient funds are not  
9                   made available to carry out an operating agreement  
10                  under this chapter—

11                  “(A) the Secretary of Transportation shall  
12                  submit to the Committee on Armed Services and  
13                  the Committee on Commerce, Science, and  
14                  Transportation of the Senate and the Committee  
15                  on Armed Services and the Committee on Trans-  
16                  portation and Infrastructure of the House of  
17                  Representatives notice that such agreement shall  
18                  be not renewed effective on the 60th day of the  
19                  fiscal year, unless such funds are made available  
20                  before such day; and

21                  “(B) effective on the 60th day of such fiscal  
22                  year, terminate such agreement and provide no-  
23                  tice of such termination to the owner or operator  
24                  of the vessel covered by the agreement.



1       *domestic trade allowed under a registry endorsement*  
2       *issued under section 12111 of this title, foreign-to-for-*  
3       *foreign commerce, or under a charter to the United*  
4       *States;*

5               “(2) *not be operated in the coastwise trade except*  
6       *as described in paragraph (1); and*

7               “(3) *be documented under chapter 121 of this*  
8       *title.*

9       “(b) *OPERATING AGREEMENT IS AN OBLIGATION OF*  
10    *THE UNITED STATES GOVERNMENT.—An operating agree-*  
11    *ment under this chapter constitutes a contractual obligation*  
12    *of the United States Government to pay the amounts pro-*  
13    *vided for in the agreement to the extent of actual appropria-*  
14    *tions.*

15       “(c) *OBLIGATIONS OF OWNER OR OPERATOR.—*

16               “(1) *IN GENERAL.—The owner or operator of a*  
17       *vessel covered by an operating agreement under this*  
18       *chapter shall agree, as a condition of such agreement,*  
19       *to remain obligated to carry out the requirements de-*  
20       *scribed in paragraph (2) until the termination date*  
21       *specified in the agreement, even in the case of early*  
22       *termination of the agreement under section 70705(c)*  
23       *of this title. This subsection shall not apply in the*  
24       *case of an operating agreement terminated for lack of*  
25       *funds under section 70705(d) of this title.*

1           “(2) *REQUIREMENTS.*—*The requirements de-*  
2           *scribed in this paragraph are the following:*

3                   “(A) *To continue the documentation of the*  
4                   *vessel under chapter 121 of this title.*

5                   “(B) *To be bound by the requirements of*  
6                   *section 70708 of this title.*

7                   “(C) *That all terms and conditions of an*  
8                   *emergency preparedness agreement entered into*  
9                   *under section 70708 of this title shall remain in*  
10                  *effect, except that the terms of such emergency*  
11                  *preparedness agreement may be modified by the*  
12                  *mutual consent of the owner or operator, the Sec-*  
13                  *retary and the Secretary of Defense as provided*  
14                  *in such section.*

15           “(d) *TRANSFER OF OPERATING AGREEMENTS.*—*The*  
16           *owner or operator of a vessel covered by an operating agree-*  
17           *ment under this chapter may transfer that agreement (in-*  
18           *cluding all rights and obligations under the agreement) to*  
19           *any person that is eligible to enter into that operating*  
20           *agreement under this chapter, if the transfer is approved*  
21           *by the Secretary of Transportation and the Secretary of De-*  
22           *fense.*

23           “(e) *REPLACEMENT OF VESSELS COVERED BY AGREE-*  
24           *MENTS.*—*A owner or operator may replace a vessel covered*  
25           *by an operating agreement with another vessel that is eligi-*

1 ble to be included in the Fleet under section 70702(b), if  
2 the Secretary of Transportation, in coordination with the  
3 Secretary of Defense, approves the replacement of the vessel.  
4 In selecting a replacement vessel, the owner or operator  
5 shall give primary consideration to—

6           “(1) the commercial viability of the vessel;

7           “(2) the utility of the vessel with respect to the  
8 operating requirements of the owner or operator; and

9           “(3) ensuring that the commercial and military  
10 utility of any replacement vessel is not less than that  
11 of the initial vessel.

12 **“§ 70707. Payments**

13           “(a) ANNUAL PAYMENT.—Subject to the availability of  
14 appropriations for such purpose and the other provisions  
15 of this chapter, the Secretary shall pay to the owner or oper-  
16 ator of a vessel covered by an operating agreement under  
17 this chapter an amount equal to \$6,000,000 for each vessel  
18 covered by the agreement for each fiscal year that the vessel  
19 is covered by the agreement. Such amount shall be paid in  
20 equal monthly installments on the last day of each month.  
21 The amount payable under this subsection may not be re-  
22 duced except as provided by this section.

23           “(b) CERTIFICATION REQUIRED FOR PAYMENT.—As a  
24 condition of receiving payment under this section for a fis-  
25 cal year for a vessel, the owner or operator for the vessel

1 *shall certify, in accordance with regulations issued by the*  
2 *Secretary, that the vessel has been and will be operated in*  
3 *accordance with section 70706 of this title for at least 320*  
4 *days during the fiscal year. Days during which the vessel*  
5 *is drydocked, surveyed, inspected, or repaired shall be con-*  
6 *sidered days of operation for purposes of this subsection.*

7       “(c) *GENERAL LIMITATIONS.—The Secretary may not*  
8 *make any payment under this chapter for a vessel with re-*  
9 *spect to any days for which the vessel is—*

10               “(1) *not operated or maintained in accordance*  
11 *with an operating agreement under this chapter; or*

12               “(2) *more than 25 years of age.*

13       “(d) *REDUCTIONS IN PAYMENTS.—With respect to*  
14 *payments under this chapter for a vessel covered by an oper-*  
15 *ating agreement, the Secretary—*

16               “(1) *except as provided in paragraph (2), may*  
17 *not reduce such a payment for the operation of the*  
18 *vessel to carry military or other preference cargoes*  
19 *under section 55302(a), 55304, 55305, or 55314 of*  
20 *this title, section 2631 of title 10, or any other cargo*  
21 *preference law of the United States;*

22               “(2) *may not make such a payment for any day*  
23 *that the vessel is engaged in transporting more than*  
24 *7,500 tons of civilian bulk preference cargoes pursu-*  
25 *ant to section 55302(a), 55305, or 55314 of this title,*

1 *section 90l(a) or (b) of the Merchant Marine Act,*  
2 *1936 (46 App. U.S.C. 1241(a), 1241(b), or 1241(f)),*  
3 *that is bulk cargo; and*

4 *“(3) shall make a pro rata reduction for each*  
5 *day less than 320 in a fiscal year that the vessel is*  
6 *not operated in accordance with section 70706 of this*  
7 *title.*

8 *“(e) LIMITATIONS REGARDING NONCONTIGUOUS DO-*  
9 *MESTIC TRADE.—*

10 *“(1) IN GENERAL.—No owner or operator shall*  
11 *receive payments pursuant to this chapter during a*  
12 *period in which it participates in noncontiguous do-*  
13 *mestic trade.*

14 *“(2) LIMITATION ON APPLICATION.—Paragraph*  
15 *(1) shall not apply to a owner or operator that is a*  
16 *citizen of the United States within the meaning of*  
17 *section 50501 of this title, applying the 75 percent*  
18 *ownership requirement of that section.*

19 *“(3) PARTICIPATES IN A NONCONTIGUOUS TRADE*  
20 *DEFINED.—In this subsection the term ‘participates*  
21 *in a noncontiguous domestic trade’ means directly or*  
22 *indirectly owns, charters, or operates a vessel engaged*  
23 *in transportation of cargo between a point in the con-*  
24 *tiguous 48 States and a point in Alaska, Hawaii, or*

1 *Puerto Rico, other than a point in Alaska north of*  
2 *the Arctic Circle.*

3 **“§ 70708. National security requirements**

4 “(a) *EMERGENCY PREPAREDNESS AGREEMENT RE-*  
5 *QUIRED.—The Secretary of Transportation, in coordina-*  
6 *tion with the Secretary of Defense, shall establish an emer-*  
7 *gency preparedness program under this section under which*  
8 *the owner or operator of a vessel covered by an operating*  
9 *agreement under this chapter shall agree, as a condition*  
10 *of the operating agreement, to enter into an emergency pre-*  
11 *paredness agreement with the Secretaries. Each such emer-*  
12 *gency preparedness agreement shall be entered into as*  
13 *promptly as practicable after the owner or operator has en-*  
14 *tered into the operating agreement.*

15 “(b) *TERMS OF AGREEMENT.—The terms of an agree-*  
16 *ment under this section—*

17 “(1) *shall provide that upon request by the Sec-*  
18 *retary of Defense during time of war or national*  
19 *emergency, or whenever determined by the Secretary*  
20 *of Defense to be necessary for national security or*  
21 *contingency operation (as that term is defined in sec-*  
22 *tion 101 of title 10), the owner or operator shall make*  
23 *available commercial transportation resources (in-*  
24 *cluding services) described in subsection (d) to the*  
25 *Secretary of Defense;*

1           “(2) shall include such additional terms as may  
2           be established by the Secretary of Transportation and  
3           the Secretary of Defense; and

4           “(3) shall allow for the modification or addition  
5           of terms upon agreement by the Secretary of Trans-  
6           portation and the owner or operator and the approval  
7           by the Secretary of Defense.

8           “(c) *PARTICIPATION AFTER EXPIRATION OF OPER-*  
9 *ATING AGREEMENT.*—*Except as provided by section 70706*  
10 *of this title, the Secretary may not require, through an*  
11 *emergency preparedness agreement or an operating agree-*  
12 *ment, that an owner or operator of a vessel covered by an*  
13 *operating agreement continue to participate in an emer-*  
14 *gency preparedness agreement after the operating agree-*  
15 *ment has expired according to its terms or is otherwise no*  
16 *longer in effect. After the expiration of an emergency pre-*  
17 *paredness agreement, a owner or operator may voluntarily*  
18 *continue to participate in the agreement.*

19           “(d) *RESOURCES MADE AVAILABLE.*—*The commercial*  
20 *transportation resources to be made available under an*  
21 *emergency preparedness agreement shall include vessels or*  
22 *capacity in vessels, terminal facilities, management serv-*  
23 *ices, and other related services, or any agreed portion of*  
24 *such nonvessel resources for activation as the Secretary of*  
25 *Defense may determine to be necessary, seeking to minimize*

1 *disruption of the owner or operator's service to commercial*  
2 *customers.*

3 “(e) *COMPENSATION.*—

4 “(1) *IN GENERAL.*—*Each emergency prepared-*  
5 *ness agreement under this section shall provide that*  
6 *the Secretary of Defense shall pay fair and reasonable*  
7 *compensation for all commercial transportation re-*  
8 *sources provided pursuant to this section.*

9 “(2) *SPECIFIC REQUIREMENTS.*—*Compensation*  
10 *under this subsection—*

11 “(A) *shall not be less than the owner or op-*  
12 *erator's commercial market charges for like*  
13 *transportation resources;*

14 “(B) *shall be fair and reasonable consid-*  
15 *ering all circumstances;*

16 “(C) *shall be provided from the time that a*  
17 *vessel or resource is required by the Secretary of*  
18 *Defense until the time it is redelivered to the*  
19 *owner or operator and is available to reenter*  
20 *commercial service; and*

21 “(D) *shall be in addition to and shall not*  
22 *in any way reflect amounts payable under sec-*  
23 *tion 70707 of this title.*

24 “(f) *TEMPORARY REPLACEMENT VESSELS.*—*Notwith-*  
25 *standing section 55302(a), 55304, 55305, or 55314 of this*

1 *title, section 2631 of title 10, or any other cargo preference*  
2 *law of the United States—*

3           “(1) *an owner or operator may operate or em-*  
4 *ploy in foreign commerce a foreign-flag vessel or for-*  
5 *eign-flag vessel capacity as a temporary replacement*  
6 *for a vessel of the United States or vessel of the*  
7 *United States capacity that is activated by the Sec-*  
8 *retary of Defense under an emergency preparedness*  
9 *agreement or a primary Department of Defense sealift*  
10 *readiness program; and*

11           “(2) *such replacement vessel or vessel capacity*  
12 *shall be eligible during the replacement period to*  
13 *transport preference cargoes subject to sections*  
14 *55302(a), 55304, 55305, and 55314 of this title and*  
15 *section 2631 of title 10 to the same extent as the eligi-*  
16 *bility of the vessel or vessel capacity replaced.*

17           “(g) *REDELIVERY AND LIABILITY OF THE UNITED*  
18 *STATES FOR DAMAGES.—*

19           “(1) *IN GENERAL.—All commercial transpor-*  
20 *tation resources activated under an emergency pre-*  
21 *paredness agreement shall, upon termination of the*  
22 *period of activation, be redelivered to the owner or op-*  
23 *erator in the same good order and condition as when*  
24 *received, less ordinary wear and tear, or the Sec-*

1        *retary of Defense shall fully compensate the owner or*  
2        *operator for any necessary repair or replacement.*

3            “(2) *LIMITATION ON UNITED STATES LIABIL-*  
4        *ITY.—Except as may be expressly agreed in an emer-*  
5        *gency preparedness agreement, or as otherwise pro-*  
6        *vided by law, the Government shall not be liable for*  
7        *disruption of an owner or operator’s commercial busi-*  
8        *ness or other consequential damages to an owner or*  
9        *operator arising from the activation of commercial*  
10       *transportation resources under an emergency pre-*  
11       *paredness agreement.*

12        **“§ 70709. Regulatory relief**

13            “(a) *OPERATION IN FOREIGN COMMERCE.—An owner*  
14        *or operator for a vessel included in an operating agreement*  
15        *under this chapter may operate the vessel in the foreign*  
16        *commerce of the United States without restriction.*

17            “(b) *OTHER RESTRICTIONS.—The restrictions of sec-*  
18        *tion 55305(a) of this title concerning the building, rebuild-*  
19        *ing, or documentation of a vessel in a foreign country shall*  
20        *not apply to a vessel for any day the operator of the vessel*  
21        *is receiving payments for the operation of that vessel under*  
22        *an operating agreement under this chapter.*

23            “(c) *TELECOMMUNICATIONS EQUIPMENT.—The tele-*  
24        *communications and other electronic equipment on an ex-*  
25        *isting vessel that is redocumented under the laws of the*

1 *United States for operation under an operating agreement*  
2 *under this chapter shall be deemed to satisfy all Federal*  
3 *Communications Commission equipment certification re-*  
4 *quirements, if—*

5           “(1) *such equipment complies with all applicable*  
6 *international agreements and associated guidelines as*  
7 *determined by the country in which the vessel was*  
8 *documented immediately before becoming documented*  
9 *under the laws of the United States;*

10           “(2) *that country has not been identified by the*  
11 *Secretary as inadequately enforcing international reg-*  
12 *ulations as to that vessel; and*

13           “(3) *at the end of its useful life, such equipment*  
14 *shall be replaced with equipment that meets Federal*  
15 *Communications Commission equipment certification*  
16 *standards.*

17 **“§ 70710. *Special rule regarding age of participating***  
18 ***Fleet vessels***

19           “*Any age restriction under section 70702(b)(4) of this*  
20 *title shall not apply to a participating Fleet vessel during*  
21 *the 30-month period beginning on the date the vessel begins*  
22 *operating under an operating agreement under this chapter,*  
23 *if the Secretary of Transportation determines that the*  
24 *owner or operator of the vessel has entered into an arrange-*  
25 *ment to obtain and operate under the operating agreement*

1 *for the participating Fleet vessel a replacement vessel that,*  
2 *upon commencement of such operation, will be eligible to*  
3 *be included in the Fleet under section 70702(b) of this title.*

4 **“§ 70711. Regulations**

5 *“The Secretary of Transportation and the Secretary*  
6 *of Defense may each prescribe rules as necessary to carry*  
7 *out their respective responsibilities under this chapter.*

8 **“§ 70712. Authorization of appropriations**

9 *“There is authorized to be appropriated for payments*  
10 *under section 70707, \$60,000,000 for each of fiscal years*  
11 *2021 through 2035, to remain available until expended.*

12 **“§ 70713. Acquisition of Fleet vessels**

13 *“(a) IN GENERAL.—Upon replacement of a Fleet Ves-*  
14 *sel under an operating agreement under this chapter, and*  
15 *subject to agreement by the owner or operator of the vessel,*  
16 *the Secretary of Transportation is authorized, subject to the*  
17 *concurrence of the Secretary of Defense, to acquire the vessel*  
18 *being replaced for inclusion in the National Defense Reserve*  
19 *Fleet.*

20 *“(b) REQUIREMENTS.—To be eligible for acquisition*  
21 *by the Secretary of Transportation under this section a ves-*  
22 *sel shall—*

23 *“(1) have been covered by an operating agree-*  
24 *ment under this chapter for not less than three years;*  
25 *and*

1           “(2) meet recapitalization requirements for the  
2       *Ready Reserve Force.*

3           “(c) *FAIR MARKET VALUE.*—*A fair market value shall*  
4 *be established by the Maritime Administration for acquisi-*  
5 *tion of an eligible vessel under this section.*

6           “(d) *APPROPRIATIONS.*—*Vessel acquisitions under this*  
7 *section shall be subject to the availability of appropriations.*  
8 *Amounts made available to carry out this section shall be*  
9 *derived from amounts authorized to be appropriated for the*  
10 *National Defense Reserve Fleet. Amounts authorized to be*  
11 *appropriated to carry out the Maritime Security Program*  
12 *may not be use to carry out this section.”.*

13           “(b) *CLERICAL AMENDMENT.*—*The table of chapters for*  
14 *subtitle VII of title 46, United States Code, is amended by*  
15 *adding at the end the following:*

          “707. *Tanker Security Fleet* ..... 70701”.

16           “(c) *DEADLINE FOR ACCEPTING APPLICATIONS.*—

17           (1) *IN GENERAL.*—*The Secretary of Transpor-*  
18 *tation shall begin accepting applications for enroll-*  
19 *ment of vessels in the Tanker Security Fleet estab-*  
20 *lished under chapter 707 of title 46, United States*  
21 *Code, as added by subsection (a), by not later than*  
22 *30 days after the date of the enactment of this Act.*

23           (2) *APPROVAL.*—*Not later than 90 days after re-*  
24 *ceipt of an application for the enrollment of a vessel*

1        *in the Tanker Security Fleet, the Secretary, in coordi-*  
2        *nation with the Secretary of Defense shall—*

3                *(A) approve the application and enter into*  
4                *an operating agreement with the applicant; or*

5                *(B) provide to the applicant a written ex-*  
6                *planation for the denial of the application.*

## 7        ***DIVISION D—FUNDING TABLES***

### 8        ***SEC. 4001. AUTHORIZATION OF AMOUNTS IN FUNDING TA-*** 9                ***BLES.***

10        *(a) IN GENERAL.—Whenever a funding table in this*  
11        *division specifies a dollar amount authorized for a project,*  
12        *program, or activity, the obligation and expenditure of the*  
13        *specified dollar amount for the project, program, or activity*  
14        *is hereby authorized, subject to the availability of appro-*  
15        *priations.*

16        *(b) MERIT-BASED DECISIONS.—A decision to commit,*  
17        *obligate, or expend funds with or to a specific entity on*  
18        *the basis of a dollar amount authorized pursuant to sub-*  
19        *section (a) shall—*

20                *(1) be based on merit-based selection procedures*  
21                *in accordance with the requirements of sections*  
22                *2304(k) and 2374 of title 10, United States Code, or*  
23                *on competitive procedures; and*

24                *(2) comply with other applicable provisions of*  
25        *law.*

1           (c) *RELATIONSHIP TO TRANSFER AND PROGRAMMING*  
 2 *AUTHORITY.*—An amount specified in the funding tables in  
 3 this division may be transferred or reprogrammed under  
 4 a transfer or reprogramming authority provided by another  
 5 provision of this Act or by other law. The transfer or re-  
 6 programming of an amount specified in such funding tables  
 7 shall not count against a ceiling on such transfers or  
 8 reprogrammings under section 1001 or section 1512 of this  
 9 Act or any other provision of law, unless such transfer or  
 10 reprogramming would move funds between appropriation  
 11 accounts.

12           (d) *APPLICABILITY TO CLASSIFIED ANNEX.*—This sec-  
 13 tion applies to any classified annex that accompanies this  
 14 Act.

15           (e) *ORAL AND WRITTEN COMMUNICATIONS.*—No oral  
 16 or written communication concerning any amount specified  
 17 in the funding tables in this division shall supersede the  
 18 requirements of this section.

19                                   **TITLE XLI—PROCUREMENT**

20           **SEC. 4101. PROCUREMENT.**

<b>SEC. 4101. PROCUREMENT</b> (In Thousands of Dollars)			
<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>AIRCRAFT PROCUREMENT, ARMY</b>			
<b>FIXED WING</b>			
002	UTILITY F/W AIRCRAFT .....	16,000	0
	Early to need .....		[-16,000]
004	RQ-11 (RAVEN) .....	23,510	21,510
	Unit cost growth .....		[-2,000]
<b>ROTARY</b>			
005	TACTICAL UNMANNED AIRCRAFT SYSTEM (TUAS) .....	12,100	12,100
007	HELICOPTER, LIGHT UTILITY (LUH) .....		11,000
	Program increase for sustainment improvements .....		[11,000]
008	AH-64 APACHE BLOCK IIIA REMAN .....	806,849	786,009
	Unjustified cost growth .....		[-20,840]
009	AH-64 APACHE BLOCK IIIA REMAN .....	190,870	174,970
	Unjustified cost growth .....		[-15,900]

**SEC. 4101. PROCUREMENT**  
**(In Thousands of Dollars)**

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
012	UH-60 BLACKHAWK M MODEL (MYP) .....	1,411,540	1,411,540
013	UH-60 BLACKHAWK M MODEL (MYP) .....	79,572	79,572
014	UH-60 BLACKHAWK L AND V MODELS .....	169,290	169,290
015	CH-47 HELICOPTER .....	140,290	131,290
	Unit cost growth .....		[-9,000]
016	CH-47 HELICOPTER .....	18,186	46,186
	Advanced procurement for CH-47F Block II .....		[28,000]
	<b>MODIFICATION OF AIRCRAFT</b>		
019	UNIVERSAL GROUND CONTROL EQUIPMENT (UAS) .....	2,090	2,090
020	GRAY EAGLE MODS2 .....	14,699	14,699
021	MULTI SENSOR ABN RECON (MIP) .....	35,189	35,189
022	AH-64 MODS .....	58,172	58,172
023	CH-47 CARGO HELICOPTER MODS (MYP) .....	11,785	6,785
	Unobligated balances .....		[-5,000]
024	GRCS SEMA MODS (MIP) .....	5,677	5,677
025	ARL SEMA MODS (MIP) .....	6,566	6,566
026	EMARSS SEMA MODS (MIP) .....	3,859	3,859
027	UTILITY/CARGO AIRPLANE MODS .....	15,476	13,476
	Unit cost discrepancy .....		[-2,000]
028	UTILITY HELICOPTER MODS .....	6,744	6,744
029	NETWORK AND MISSION PLAN .....	105,442	98,442
	Cost growth .....		[-7,000]
030	COMMS, NAV SURVEILLANCE .....	164,315	164,315
032	GATM ROLLUP .....	30,966	30,966
033	RQ-7 UAV MODS .....	8,983	38,983
	Program increase .....		[30,000]
034	UAS MODS .....	10,205	10,205
	<b>GROUND SUPPORT AVIONICS</b>		
035	AIRCRAFT SURVIVABILITY EQUIPMENT .....	52,297	52,297
036	SURVIVABILITY CM .....	8,388	8,388
037	CMWS .....	13,999	13,999
038	COMMON INFRARED COUNTERMEASURES (CIRCM) .....	168,784	168,784
	<b>OTHER SUPPORT</b>		
039	AVIONICS SUPPORT EQUIPMENT .....	1,777	1,777
040	COMMON GROUND EQUIPMENT .....	18,624	18,624
041	AIRCREW INTEGRATED SYSTEMS .....	48,255	48,255
042	AIR TRAFFIC CONTROL .....	32,738	32,738
044	LAUNCHER, 2.75 ROCKET .....	2,201	2,201
045	LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE XM2 .....	991	991
	<b>TOTAL AIRCRAFT PROCUREMENT, ARMY</b> .....	<b>3,696,429</b>	<b>3,687,689</b>
	<b>MISSILE PROCUREMENT, ARMY</b>		
	<b>SURFACE-TO-AIR MISSILE SYSTEM</b>		
001	SYSTEM INTEGRATION AND TEST PROCUREMENT .....	113,857	113,857
002	M-SHORAD—PROCUREMENT .....	103,800	56,800
	Early to need .....		[-47,000]
003	MSE MISSILE .....	698,603	698,603
004	INDIRECT FIRE PROTECTION CAPABILITY INC 2-I .....	9,337	9,337
	<b>AIR-TO-SURFACE MISSILE SYSTEM</b>		
006	HELLFIRE SYS SUMMARY .....	193,284	173,284
	Unit cost growth .....		[-20,000]
007	JOINT AIR-TO-GROUND MSLS (JAGM) .....	233,353	198,353
	Contract and schedule delays .....		[-35,000]
	<b>ANTI-TANK/ASSAULT MISSILE SYS</b>		
008	JAVELIN (AAWS-M) SYSTEM SUMMARY .....	138,405	138,405
009	TOW 2 SYSTEM SUMMARY .....	114,340	110,340
	Unit cost growth .....		[-4,000]
010	TOW 2 SYSTEM SUMMARY .....	10,500	10,500
011	GUIDED MLRS ROCKET (GMLRS) .....	797,213	767,213
	Program adjustment .....		[-30,000]
012	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) .....	27,555	27,555
014	ARMY TACTICAL MSL SYS (ATACMS)—SYS SUM .....	209,842	184,842
	Excess to need .....		[-25,000]
	<b>MODIFICATIONS</b>		
016	PATRIOT MODS .....	279,464	279,464
017	ATACMS MODS .....	85,320	80,320
	Unit cost growth .....		[-5,000]
018	GMLRS MOD .....	5,094	5,094
019	STINGER MODS .....	81,615	81,615
020	AVENGER MODS .....	14,107	14,107
021	ITAS/TOW MODS .....	3,469	3,469
022	MLRS MODS .....	39,019	39,019
023	HIMARS MODIFICATIONS .....	12,483	12,483
	<b>SPARES AND REPAIR PARTS</b>		
024	SPARES AND REPAIR PARTS .....	26,444	26,444
	<b>SUPPORT EQUIPMENT &amp; FACILITIES</b>		
025	AIR DEFENSE TARGETS .....	10,593	10,593
	<b>TOTAL MISSILE PROCUREMENT, ARMY</b> .....	<b>3,207,697</b>	<b>3,041,697</b>

**SEC. 4101. PROCUREMENT**  
**(In Thousands of Dollars)**

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>PROCUREMENT OF W&amp;TCV, ARMY</b>			
<b>TRACKED COMBAT VEHICLES</b>			
002	ARMORED MULTI PURPOSE VEHICLE (AMPV) .....	264,040	259,040
	Unit cost discrepancy .....		[-5,000]
<b>MODIFICATION OF TRACKED COMBAT VEHICLES</b>			
003	STRYKER (MOD) .....	144,387	393,587
	Accelerate Stryker medium caliber weapon system—Army unfunded priority .....		[249,200]
004	STRYKER UPGRADE .....	550,000	550,000
005	BRADLEY PROGRAM (MOD) .....	638,781	573,781
	Program delay .....		[-65,000]
006	M109 FOV MODIFICATIONS .....	25,756	25,756
007	PALADIN INTEGRATED MANAGEMENT (PIM) .....	553,425	553,425
009	ASSAULT BRIDGE (MOD) .....	2,821	2,821
010	ASSAULT BREACHER VEHICLE .....	31,697	31,697
011	M88 FOV MODS .....	4,500	4,500
012	JOINT ASSAULT BRIDGE .....	205,517	205,517
013	M1 ABRAMS TANK (MOD) .....	348,800	408,800
	Vehicle protection system for one armored brigade .....		[60,000]
014	ABRAMS UPGRADE PROGRAM .....	1,752,784	1,752,784
<b>WEAPONS &amp; OTHER COMBAT VEHICLES</b>			
016	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS .....	19,420	19,420
017	GUN AUTOMATIC 30MM M230 .....	20,000	20,000
019	MORTAR SYSTEMS .....	14,907	14,907
020	XM320 GRENADE LAUNCHER MODULE (GLM) .....	191	191
021	PRECISION SNIPER RIFLE .....	7,977	7,977
022	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM .....	9,860	9,860
023	CARBINE .....	30,331	30,331
024	SMALL ARMS—FIRE CONTROL .....	8,060	60
	Late contract award .....		[-8,000]
025	COMMON REMOTELY OPERATED WEAPONS STATION .....	24,007	24,007
026	HANDGUN .....	6,174	6,174
<b>MOD OF WEAPONS AND OTHER COMBAT VEH</b>			
028	MK-19 GRENADE MACHINE GUN MODS .....	3,737	3,737
029	M777 MODS .....	2,367	2,367
030	M4 CARBINE MODS .....	17,595	17,595
033	M240 MEDIUM MACHINE GUN MODS .....	8,000	8,000
034	SNIPER RIFLES MODIFICATIONS .....	2,426	2,426
035	M119 MODIFICATIONS .....	6,269	6,269
036	MORTAR MODIFICATION .....	1,693	1,693
037	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV) .....	4,327	4,327
<b>SUPPORT EQUIPMENT &amp; FACILITIES</b>			
038	ITEMS LESS THAN \$5.0M (WOCV-WTCV) .....	3,066	3,066
039	PRODUCTION BASE SUPPORT (WOCV-WTCV) .....	2,651	2,651
	<b>TOTAL PROCUREMENT OF W&amp;TCV, ARMY</b> .....	<b>4,715,566</b>	<b>4,946,766</b>
<b>PROCUREMENT OF AMMUNITION, ARMY</b>			
<b>SMALL/MEDIUM CAL AMMUNITION</b>			
001	CTG, 5.56MM, ALL TYPES .....	68,949	63,949
	Prior-year carryover .....		[-5,000]
002	CTG, 7.62MM, ALL TYPES .....	114,228	111,228
	Prior-year carryover .....		[-3,000]
003	CTG, HANDGUN, ALL TYPES .....	17,807	12,807
	Program adjustment .....		[-5,000]
004	CTG, .50 CAL, ALL TYPES .....	63,966	63,966
005	CTG, 20MM, ALL TYPES .....	35,920	27,920
	Unit cost growth .....		[-8,000]
006	CTG, 25MM, ALL TYPES .....	8,990	8,990
007	CTG, 30MM, ALL TYPES .....	68,813	57,229
	Prior-year carry over .....		[-1,134]
	Program adjustment .....		[-10,450]
008	CTG, 40MM, ALL TYPES .....	103,952	103,952
<b>MORTAR AMMUNITION</b>			
009	60MM MORTAR, ALL TYPES .....	50,580	49,580
	Unit cost discrepancy .....		[-1,000]
010	81MM MORTAR, ALL TYPES .....	59,373	44,673
	Contract delays .....		[-14,700]
011	120MM MORTAR, ALL TYPES .....	125,452	123,452
	Unit cost growth .....		[-2,000]
<b>TANK AMMUNITION</b>			
012	CARTRIDGES, TANK, 105MM AND 120MM, ALL TYPES .....	171,284	113,084
	Unit cost growth .....		[-58,200]
<b>ARTILLERY AMMUNITION</b>			
013	ARTILLERY CARTRIDGES, 75MM & 105MM, ALL TYPES .....	44,675	44,675
014	ARTILLERY PROJECTILE, 155MM, ALL TYPES .....	266,037	266,037
015	PROJ 155MM EXTENDED RANGE M982 .....	57,434	57,434
016	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL .....	271,602	265,602
	Cost growth and unjustified product improvements .....		[-6,000]

**SEC. 4101. PROCUREMENT**  
**(In Thousands of Dollars)**

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>MINES</b>			
017	MINES & CLEARING CHARGES, ALL TYPES .....	55,433	39,433
	Contract delay .....		[-16,000]
<b>ROCKETS</b>			
018	SHOULDER LAUNCHED MUNITIONS, ALL TYPES .....	74,878	74,878
019	ROCKET, HYDRA 70, ALL TYPES .....	175,994	165,994
	Excess support costs .....		[-10,000]
<b>OTHER AMMUNITION</b>			
020	CAD/PAD, ALL TYPES .....	7,595	7,595
021	DEMOLITION MUNITIONS, ALL TYPES .....	51,651	51,651
022	GRENADES, ALL TYPES .....	40,592	40,592
023	SIGNALS, ALL TYPES .....	18,609	18,609
024	SIMULATORS, ALL TYPES .....	16,054	16,054
<b>MISCELLANEOUS</b>			
025	AMMO COMPONENTS, ALL TYPES .....	5,261	5,261
026	NON-LETHAL AMMUNITION, ALL TYPES .....	715	715
027	ITEMS LESS THAN \$5 MILLION (AMMO) .....	9,213	9,213
028	AMMUNITION PECULIAR EQUIPMENT .....	10,044	10,044
029	FIRST DESTINATION TRANSPORTATION (AMMO) .....	18,492	18,492
030	CLOSEOUT LIABILITIES .....	99	99
<b>PRODUCTION BASE SUPPORT</b>			
031	INDUSTRIAL FACILITIES .....	474,511	474,511
032	CONVENTIONAL MUNITIONS DEMILITARIZATION .....	202,512	202,512
033	ARMS INITIATIVE .....	3,833	3,833
	<b>TOTAL PROCUREMENT OF AMMUNITION, ARMY</b> .....	<b>2,694,548</b>	<b>2,554,064</b>
<b>OTHER PROCUREMENT, ARMY</b>			
<b>TACTICAL VEHICLES</b>			
001	TACTICAL TRAILERS/DOLLY SETS .....	12,993	12,993
002	SEMITRAILERS, FLATBED: .....	102,386	102,386
003	AMBULANCE, 4 LITTER, 5/4 TON, 4X4 .....	127,271	127,271
004	GROUND MOBILITY VEHICLES (GMV) .....	37,038	35,038
	Unit cost growth .....		[-2,000]
006	JOINT LIGHT TACTICAL VEHICLE .....	996,007	976,507
	Army requested transfer to RDTE, A line 169 .....		[-4,500]
	Simulator delay .....		[-15,000]
007	TRUCK, DUMP, 20T (CCE) .....	10,838	10,838
008	FAMILY OF MEDIUM TACTICAL VEH (FMTV) .....	72,057	138,057
	Program increase .....		[66,000]
009	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIP .....	28,048	28,048
010	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV) .....	9,969	9,969
011	PLS ESP .....	6,280	6,280
012	HVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV .....	30,841	131,841
	Program increase .....		[101,000]
013	HMMWV RECAPITALIZATION PROGRAM .....	5,734	5,734
014	TACTICAL WHEELED VEHICLE PROTECTION KITS .....	45,113	45,113
015	MODIFICATION OF IN SVC EQUIP .....	58,946	58,946
<b>NON-TACTICAL VEHICLES</b>			
017	HEAVY ARMORED VEHICLE .....	791	791
018	PASSENGER CARRYING VEHICLES .....	1,416	1,416
019	NON-TACTICAL VEHICLES, OTHER .....	29,891	29,891
<b>COMM—JOINT COMMUNICATIONS</b>			
021	SIGNAL MODERNIZATION PROGRAM .....	153,933	148,933
	Excess funding for spares .....		[-5,000]
022	TACTICAL NETWORK TECHNOLOGY MOD IN SVC .....	387,439	411,439
	ITN-M for one armored brigade combat team .....		[24,000]
023	SITUATION INFORMATION TRANSPORT .....	46,693	46,693
025	JCSE EQUIPMENT (USRDECOM) .....	5,075	5,075
<b>COMM—SATELLITE COMMUNICATIONS</b>			
028	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS .....	101,189	101,189
029	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS .....	77,141	77,141
030	SHF TERM .....	16,054	16,054
031	ASSURED POSITIONING, NAVIGATION AND TIMING .....	41,074	24,914
	Contract delays .....		[-28,760]
	Program cancellation .....		[-7,400]
	Program increase .....		[20,000]
032	SMART-T (SPACE) .....	10,515	10,515
033	GLOBAL BRDCST SVC—GBS .....	11,800	11,800
034	ENROUTE MISSION COMMAND (EMC) .....	8,609	8,609
<b>COMM—C3 SYSTEM</b>			
038	COE TACTICAL SERVER INFRASTRUCTURE (TSI) .....	77,533	77,533
<b>COMM—COMBAT COMMUNICATIONS</b>			
039	HANDHELD MANPACK SMALL FORM FIT (HMS) .....	468,026	468,026
	Program delay .....		[-25,000]
	SFAB technology refresh .....		[25,000]
040	RADIO TERMINAL SET, MIDS LVT(2) .....	23,778	23,778
044	SPIDER FAMILY OF NETWORKED MUNITIONS INCR .....	10,930	10,930
046	UNIFIED COMMAND SUITE .....	9,291	8,291

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	<i>Excess program management costs</i> .....		[-1,000]
047	COTS COMMUNICATIONS EQUIPMENT .....	55,630	55,630
048	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE .....	16,590	16,590
049	ARMY COMMUNICATIONS & ELECTRONICS .....	43,457	43,457
	<b>COMM—INTELLIGENCE COMM</b>		
051	CI AUTOMATION ARCHITECTURE (MIP) .....	10,470	10,470
052	DEFENSE MILITARY DECEPTION INITIATIVE .....	3,704	3,704
	<b>INFORMATION SECURITY</b>		
053	FAMILY OF BIOMETRICS .....	1,000	1,000
054	INFORMATION SYSTEM SECURITY PROGRAM-ISSP .....	3,600	3,600
055	COMMUNICATIONS SECURITY (COMSEC) .....	160,899	141,899
	<i>Unit cost growth</i> .....		[-19,000]
056	DEFENSIVE CYBER OPERATIONS .....	61,962	61,962
057	INSIDER THREAT PROGRAM—UNIT ACTIVITY MONITO .....	756	756
058	PERSISTENT CYBER TRAINING ENVIRONMENT .....	3,000	3,000
	<b>COMM—LONG HAUL COMMUNICATIONS</b>		
059	BASE SUPPORT COMMUNICATIONS .....	31,770	26,770
	<i>Insufficient budget justification</i> .....		[-5,000]
	<b>COMM—BASE COMMUNICATIONS</b>		
060	INFORMATION SYSTEMS .....	159,009	139,009
	<i>Unjustified growth</i> .....		[-15,000]
	<i>Unjustified growth in SRM HW</i> .....		[-5,000]
061	EMERGENCY MANAGEMENT MODERNIZATION PROGRAM .....	4,854	4,854
062	HOME STATION MISSION COMMAND CENTERS (HSMCC) .....	47,174	47,174
063	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM .....	297,994	247,994
	<i>Insufficient budget justification</i> .....		[-50,000]
	<b>ELECT EQUIP—TACT INT REL ACT (TIARA)</b>		
066	JTT/CIBS-M (MIP) .....	7,686	7,686
068	DCGS-A (MIP) .....	180,350	180,350
070	TROJAN (MIP) .....	17,368	17,368
071	MOD OF IN-SVC EQUIP (INTEL SPT) (MIP) .....	59,052	59,052
	<b>ELECT EQUIP—ELECTRONIC WARFARE (EW)</b>		
077	LIGHTWEIGHT COUNTER MORTAR RADAR .....	5,400	5,400
078	EW PLANNING & MANAGEMENT TOOLS (EWPMT) .....	7,568	7,568
079	AIR VIGILANCE (AV) (MIP) .....	8,953	8,953
081	MULTI-FUNCTION ELECTRONIC WARFARE (MFEW) SYST .....	6,420	6,420
083	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES .....	501	501
084	CI MODERNIZATION (MIP) .....	121	121
	<b>ELECT EQUIP—TACTICAL SURV. (TAC SURV)</b>		
085	SENTINEL MODS .....	115,210	114,210
	<i>Excess support costs</i> .....		[-1,000]
086	NIGHT VISION DEVICES .....	236,604	160,604
	<i>Insufficient justification (IVAS)</i> .....		[-76,000]
088	SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF .....	22,623	22,623
090	INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS .....	29,127	29,127
091	FAMILY OF WEAPON SIGHTS (FWS) .....	120,883	81,541
	<i>Excess unit cost growth</i> .....		[-39,342]
094	JOINT BATTLE COMMAND—PLATFORM (JBC-P) .....	265,667	240,167
	<i>Program adjustment</i> .....		[-25,500]
095	JOINT EFFECTS TARGETING SYSTEM (JETS) .....	69,720	44,720
	<i>Program delay</i> .....		[-25,000]
096	MOD OF IN-SVC EQUIP (LLDR) .....	6,044	6,044
097	COMPUTER BALLISTICS: LHMCB XM32 .....	3,268	3,268
098	MORTAR FIRE CONTROL SYSTEM .....	13,199	13,199
099	MORTAR FIRE CONTROL SYSTEMS MODIFICATIONS .....	10,000	10,000
100	COUNTERFIRE RADARS .....	16,416	16,416
	<b>ELECT EQUIP—TACTICAL C2 SYSTEMS</b>		
102	FIRE SUPPORT C2 FAMILY .....	13,197	13,197
103	AIR & MSL DEFENSE PLANNING & CONTROL SYS .....	24,730	24,730
104	LAND BATTLE COMMAND SYSTEM .....	29,629	29,629
105	LIFE CYCLE SOFTWARE SUPPORT (LCSS) .....	6,774	6,774
106	NETWORK MANAGEMENT INITIALIZATION AND SERVICE .....	24,448	24,448
107	MANEUVER CONTROL SYSTEM (MCS) .....	260	260
108	GLOBAL COMBAT SUPPORT SYSTEM-ARMY (GCSS-A) .....	17,962	17,962
109	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPP) .....	18,674	18,674
110	RECONNAISSANCE AND SURVEYING INSTRUMENT SET .....	11,000	11,000
111	MOD OF IN-SVC EQUIPMENT (ENFIRE) .....	7,317	15,317
	<i>Program increase—land surveying systems</i> .....		[8,000]
	<b>ELECT EQUIP—AUTOMATION</b>		
112	ARMY TRAINING MODERNIZATION .....	14,578	14,578
113	AUTOMATED DATA PROCESSING EQUIP .....	139,342	129,342
	<i>Program decrease</i> .....		[-5,000]
	<i>Unjustified growth</i> .....		[-5,000]
114	GENERAL FUND ENTERPRISE BUSINESS SYSTEMS FAM .....	15,802	15,802
115	HIGH PERF COMPUTING MOD PGM (HPCMP) .....	67,610	67,610
116	CONTRACT WRITING SYSTEM .....	15,000	15,000
117	CSS COMMUNICATIONS .....	24,700	24,700
118	RESERVE COMPONENT AUTOMATION SYS (RCAS) .....	27,879	27,879

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	<b>ELECT EQUIP—AUDIO VISUAL SYS (A/V)</b>		
120	ITEMS LESS THAN \$5M (SURVEYING EQUIPMENT) .....	5,000	5,000
	<b>ELECT EQUIP—SUPPORT</b>		
122	BCT EMERGING TECHNOLOGIES .....	22,302	22,302
	<b>CLASSIFIED PROGRAMS</b>		
122A	CLASSIFIED PROGRAMS .....	11,910	11,910
	<b>CHEMICAL DEFENSIVE EQUIPMENT</b>		
126	CBRN DEFENSE .....	25,828	25,828
127	SMOKE & OBSCURANT FAMILY: SOF (NON AAO ITEM) .....	5,050	5,050
	<b>BRIDGING EQUIPMENT</b>		
128	TACTICAL BRIDGING .....	59,821	57,821
	Contract delays .....		[-2,000]
129	TACTICAL BRIDGE, FLOAT-RIBBON .....	57,661	57,661
130	BRIDGE SUPPLEMENTAL SET .....	17,966	17,966
131	COMMON BRIDGE TRANSPORTER (CBT) RECAP .....	43,155	43,155
	<b>ENGINEER (NON-CONSTRUCTION) EQUIPMENT</b>		
132	HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST .....	7,570	7,570
133	GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS) .....	37,025	37,025
135	HUSKY MOUNTED DETECTION SYSTEM (HMDS) .....	83,082	54,082
	Unjustified unit cost growth .....		[-29,000]
136	ROBOTIC COMBAT SUPPORT SYSTEM (RCSS) .....	2,000	2,000
137	EOD ROBOTICS SYSTEMS RECAPITALIZATION .....	23,115	23,115
138	ROBOTICS AND APPLIQUE SYSTEMS .....	101,056	101,056
140	RENDER SAFE SETS KITS OUTFITS .....	18,684	18,684
142	FAMILY OF BOATS AND MOTORS .....	8,245	6,245
	Unit cost growth .....		[-2,000]
	<b>COMBAT SERVICE SUPPORT EQUIPMENT</b>		
143	HEATERS AND ECUS .....	7,336	7,336
145	PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS) .....	4,281	4,281
146	GROUND SOLDIER SYSTEM .....	111,955	111,955
147	MOBILE SOLDIER POWER .....	31,364	29,364
	Unit cost growth .....		[-2,000]
149	FIELD FEEDING EQUIPMENT .....	1,673	1,673
150	CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM .....	43,622	43,622
151	FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS .....	11,451	11,451
152	ITEMS LESS THAN \$5M (ENG SPT) .....	5,167	5,167
	<b>PETROLEUM EQUIPMENT</b>		
154	DISTRIBUTION SYSTEMS, PETROLEUM & WATER .....	74,867	74,867
	<b>MEDICAL EQUIPMENT</b>		
155	COMBAT SUPPORT MEDICAL .....	68,225	68,225
	<b>MAINTENANCE EQUIPMENT</b>		
156	MOBILE MAINTENANCE EQUIPMENT SYSTEMS .....	55,053	55,053
157	ITEMS LESS THAN \$5.0M (MAINT EQ) .....	5,608	5,608
	<b>CONSTRUCTION EQUIPMENT</b>		
161	HYDRAULIC EXCAVATOR .....	500	500
162	TRACTOR, FULL TRACKED .....	4,835	4,835
163	ALL TERRAIN CRANES .....	23,936	23,936
164	HIGH MOBILITY ENGINEER EXCAVATOR (HMEE) .....	27,188	27,188
166	CONST EQUIP ESP .....	34,790	34,790
167	ITEMS LESS THAN \$5.0M (CONST EQUIP) .....	4,381	4,381
	<b>RAIL FLOAT CONTAINERIZATION EQUIPMENT</b>		
168	ARMY WATERCRAFT ESP .....	35,194	35,194
169	MANEUVER SUPPORT VESSEL (MSV) .....	14,185	14,185
170	ITEMS LESS THAN \$5.0M (FLOAT/RAIL) .....	6,920	6,920
	<b>GENERATORS</b>		
171	GENERATORS AND ASSOCIATED EQUIP .....	58,566	58,566
172	TACTICAL ELECTRIC POWER RECAPITALIZATION .....	14,814	14,814
	<b>MATERIAL HANDLING EQUIPMENT</b>		
173	FAMILY OF FORKLIFTS .....	14,864	14,864
	<b>TRAINING EQUIPMENT</b>		
174	COMBAT TRAINING CENTERS SUPPORT .....	123,411	123,411
175	TRAINING DEVICES, NONSYSTEM .....	220,707	220,707
176	SYNTHETIC TRAINING ENVIRONMENT (STE) .....	20,749	15,749
	Program adjustment .....		[-5,000]
178	AVIATION COMBINED ARMS TACTICAL TRAINER .....	4,840	4,840
179	GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING .....	15,463	15,463
	<b>TEST MEASURE AND DIG EQUIPMENT (TMD)</b>		
180	CALIBRATION SETS EQUIPMENT .....	3,030	3,030
181	INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) .....	76,980	76,980
182	TEST EQUIPMENT MODERNIZATION (TEMOD) .....	16,415	13,415
	Historical underexecution .....		[-3,000]
	<b>OTHER SUPPORT EQUIPMENT</b>		
184	RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT .....	9,877	9,877
185	PHYSICAL SECURITY SYSTEMS (OPA3) .....	82,158	82,158
186	BASE LEVEL COMMON EQUIPMENT .....	15,340	15,340
187	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) .....	50,458	50,458
189	BUILDING, PRE-FAB, RELOCATABLE .....	14,400	14,400
190	SPECIAL EQUIPMENT FOR USER TESTING .....	9,821	9,821

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	<b>OPA2</b>		
192	INITIAL SPARES—C&E .....	9,757	9,757
	<b>TOTAL OTHER PROCUREMENT, ARMY</b> .....	<b>7,451,301</b>	<b>7,292,799</b>
	<b>AIRCRAFT PROCUREMENT, NAVY</b>		
	<b>COMBAT AIRCRAFT</b>		
001	F/A-18E/F (FIGHTER) HORNET .....	1,748,934	1,730,934
	ECO and ancillary equipment excess growth .....		[-18,000]
002	F/A-18E/F (FIGHTER) HORNET .....	55,128	51,128
	Excess engine cost growth .....		[-4,000]
003	JOINT STRIKE FIGHTER CV .....	2,272,301	2,162,301
	Target cost savings .....		[-110,000]
004	JOINT STRIKE FIGHTER CV .....	339,053	339,053
005	JSF STOVL .....	1,342,035	1,256,035
	Target cost savings .....		[-86,000]
006	JSF STOVL .....	291,804	291,804
007	CH-53K (HEAVY LIFT) .....	807,876	807,876
008	CH-53K (HEAVY LIFT) .....	215,014	215,014
009	V-22 (MEDIUM LIFT) .....	966,666	1,184,766
	Program increase .....		[248,100]
	Support cost growth .....		[-30,000]
010	V-22 (MEDIUM LIFT) .....	27,104	27,104
011	H-1 UPGRADES (UH-1Y/AH-1Z) .....	62,003	62,003
013	MH-60R (MYP) .....	894	894
014	P-8A POSEIDON .....	1,206,701	1,636,601
	Contract negotiations savings .....		[-42,900]
	Line shutdown costs early to need .....		[-68,400]
	Navy unfunded priority .....		[541,200]
016	E-2D ADV HAWKEYE .....	744,484	896,784
	GFE excess cost growth .....		[-3,500]
	Navy unfunded priority .....		[173,000]
	NRE excess cost growth .....		[-17,200]
017	E-2D ADV HAWKEYE .....	190,204	190,204
	<b>TRAINER AIRCRAFT</b>		
019	ADVANCED HELICOPTER TRAINING SYSTEM .....	261,160	261,160
	<b>OTHER AIRCRAFT</b>		
020	KC-130J .....	240,840	221,840
	Unit cost growth .....		[-19,000]
021	KC-130J .....	66,061	66,061
022	F-5 .....	39,676	39,676
023	MQ-4 TRITON .....	473,134	448,134
	PGSE excess cost growth .....		[-25,000]
024	MQ-4 TRITON .....	20,139	20,139
025	MQ-8 UAV .....	44,957	44,957
026	STUASLo UAV .....	43,819	43,819
028	VH-92A EXECUTIVE HELO .....	658,067	658,067
	<b>MODIFICATION OF AIRCRAFT</b>		
029	AEA SYSTEMS .....	44,470	44,470
030	AV-8 SERIES .....	39,472	39,472
031	ADVERSARY .....	3,415	3,415
032	F-18 SERIES .....	1,207,089	1,138,089
	Accelerate RWR modernization .....		[10,000]
	Early to need .....		[-79,000]
033	H-53 SERIES .....	68,385	68,385
034	MH-60 SERIES .....	149,797	152,297
	Demonstrate alternative low frequency active sonars .....		[2,500]
035	H-1 SERIES .....	114,059	114,059
036	EP-3 SERIES .....	8,655	8,655
038	E-2 SERIES .....	117,059	117,059
039	TRAINER A/C SERIES .....	5,616	5,616
040	C-2A .....	15,747	15,747
041	C-130 SERIES .....	122,671	122,671
042	FEWSG .....	509	509
043	CARGO/TRANSPORT A/C SERIES .....	8,767	8,767
044	E-6 SERIES .....	169,827	169,827
045	EXECUTIVE HELICOPTERS SERIES .....	8,933	8,933
047	T-45 SERIES .....	186,022	184,314
	NRE previously funded .....		[-1,708]
048	POWER PLANT CHANGES .....	16,136	16,136
049	JPATS SERIES .....	21,824	21,824
050	AVIATION LIFE SUPPORT MODS .....	39,762	39,762
051	COMMON ECM EQUIPMENT .....	162,839	159,565
	Program decrease .....		[-3,274]
052	COMMON AVIONICS CHANGES .....	102,107	75,107
	Computing and displays concurrency and equipment growth early to need .....		[-27,000]
053	COMMON DEFENSIVE WEAPON SYSTEM .....	2,100	2,100
054	ID SYSTEMS .....	41,437	33,637
	Unjustified unit cost growth .....		[-7,800]

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055	P-8 SERIES .....	107,539	107,539
056	MAGTF EW FOR AVIATION .....	26,536	26,536
057	MQ-8 SERIES .....	34,686	34,686
058	V-22 (TILT/ROTOR ACFT) OSPREY .....	325,367	325,367
059	NEXT GENERATION JAMMER (NGJ) .....	6,223	6,223
060	F-35 STOVL SERIES .....	65,585	65,585
061	F-35 CV SERIES .....	15,358	15,358
062	QRC .....	165,016	146,558
	Program decrease .....		[-18,458]
063	MQ-4 SERIES .....	27,994	27,994
064	RQ-21 SERIES .....	66,282	66,282
	<b>AIRCRAFT SPARES AND REPAIR PARTS</b>		
067	SPARES AND REPAIR PARTS .....	2,166,788	2,102,788
	MQ-4 Triton spares excess growth .....		[-64,000]
	<b>AIRCRAFT SUPPORT EQUIP &amp; FACILITIES</b>		
068	COMMON GROUND EQUIPMENT .....	491,025	470,025
	Other flight training previously funded .....		[-21,000]
069	AIRCRAFT INDUSTRIAL FACILITIES .....	71,335	71,335
070	WAR CONSUMABLES .....	41,086	32,086
	BRU-61 previously funded .....		[-9,000]
072	SPECIAL SUPPORT EQUIPMENT .....	135,740	115,740
	Program decrease .....		[-20,000]
073	FIRST DESTINATION TRANSPORTATION .....	892	892
	<b>TOTAL AIRCRAFT PROCUREMENT, NAVY</b> .....	<b>18,522,204</b>	<b>18,821,764</b>
	<b>WEAPONS PROCUREMENT, NAVY</b>		
	<b>MODIFICATION OF MISSILES</b>		
001	TRIDENT II MODS .....	1,177,251	1,157,651
	W76-2 low-yield deployment .....		[-19,600]
	<b>SUPPORT EQUIPMENT &amp; FACILITIES</b>		
002	MISSILE INDUSTRIAL FACILITIES .....	7,142	7,142
	<b>STRATEGIC MISSILES</b>		
003	TOMAHAWK .....	386,730	386,730
	<b>TACTICAL MISSILES</b>		
004	AMRAAM .....	224,502	191,502
	Unit cost growth .....		[-33,000]
005	SIDEWINDER .....	119,456	119,456
007	STANDARD MISSILE .....	404,523	379,523
	SM-6 multi-year procurement savings .....		[-25,000]
008	STANDARD MISSILE .....	96,085	96,085
009	SMALL DIAMETER BOMB II .....	118,466	118,466
010	RAM .....	106,765	106,765
012	HELLFIRE .....	1,525	1,525
015	AERIAL TARGETS .....	145,880	145,880
016	DRONES AND DECOYS .....	20,000	20,000
017	OTHER MISSILE SUPPORT .....	3,388	3,388
018	LRASM .....	143,200	168,200
	Navy unfunded priority .....		[25,000]
019	LCS OTH MISSILE .....	38,137	38,137
	<b>MODIFICATION OF MISSILES</b>		
020	ESSM .....	128,059	118,059
	Production support excess to need .....		[-10,000]
021	HARPOON MODS .....	25,447	25,447
022	HARM MODS .....	183,740	183,740
023	STANDARD MISSILES MODS .....	22,500	22,500
	<b>SUPPORT EQUIPMENT &amp; FACILITIES</b>		
024	WEAPONS INDUSTRIAL FACILITIES .....	1,958	1,958
025	FLEET SATELLITE COMM FOLLOW-ON .....	67,380	67,380
	<b>ORDNANCE SUPPORT EQUIPMENT</b>		
027	ORDNANCE SUPPORT EQUIPMENT .....	109,427	109,427
	<b>TORPEDOES AND RELATED EQUIP</b>		
028	SSTD .....	5,561	5,561
029	MK-48 TORPEDO .....	114,000	130,000
	Program increase .....		[16,000]
030	ASW TARGETS .....	15,095	15,095
	<b>MOD OF TORPEDOES AND RELATED EQUIP</b>		
031	MK-54 TORPEDO MODS .....	119,453	111,453
	HAAWC cost growth .....		[-8,000]
032	MK-48 TORPEDO ADCAP MODS .....	39,508	39,508
033	QUICKSTRIKE MINE .....	5,183	5,183
	<b>SUPPORT EQUIPMENT</b>		
034	TORPEDO SUPPORT EQUIPMENT .....	79,028	79,028
035	ASW RANGE SUPPORT .....	3,890	3,890
	<b>DESTINATION TRANSPORTATION</b>		
036	FIRST DESTINATION TRANSPORTATION .....	3,803	3,803
	<b>GUNS AND GUN MOUNTS</b>		
037	SMALL ARMS AND WEAPONS .....	14,797	14,797
	<b>MODIFICATION OF GUNS AND GUN MOUNTS</b>		

**SEC. 4101. PROCUREMENT**  
(In Thousands of Dollars)

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
038	CIWS MODS .....	44,126	0
	Unjustified OCO request .....		[-44,126]
039	COAST GUARD WEAPONS .....	44,980	44,980
040	GUN MOUNT MODS .....	66,376	66,376
041	LCS MODULE WEAPONS .....	14,585	0
	Program decrease .....		[-14,585]
043	AIRBORNE MINE NEUTRALIZATION SYSTEMS .....	7,160	7,160
	<b>SPARES AND REPAIR PARTS</b>		
045	SPARES AND REPAIR PARTS .....	126,138	126,138
	<b>TOTAL WEAPONS PROCUREMENT, NAVY</b> .....	<b>4,235,244</b>	<b>4,121,933</b>
	<b>PROCUREMENT OF AMMO, NAVY &amp; MC</b>		
	<b>NAVY AMMUNITION</b>		
001	GENERAL PURPOSE BOMBS .....	36,028	20,028
	Fuze contract delay and unit cost growth .....		[-16,000]
002	JDAM .....	70,413	62,913
	JDAM tail kit unit cost growth .....		[-7,500]
003	AIRBORNE ROCKETS, ALL TYPES .....	31,756	22,256
	Unit cost growth .....		[-9,500]
004	MACHINE GUN AMMUNITION .....	4,793	4,793
005	PRACTICE BOMBS .....	34,708	27,208
	Q1300 LGTR unit cost growth .....		[-7,500]
006	CARTRIDGES & CART ACTUATED DEVICES .....	45,738	38,738
	Contract and schedule delays .....		[-7,000]
007	AIR EXPENDABLE COUNTERMEASURES .....	77,301	67,801
	Unit cost growth .....		[-9,500]
008	JATOS .....	7,262	7,262
009	5 INCH/54 GUN AMMUNITION .....	22,594	22,594
010	INTERMEDIATE CALIBER GUN AMMUNITION .....	37,193	37,193
011	OTHER SHIP GUN AMMUNITION .....	39,491	29,491
	CART 20MM contract award delay .....		[-10,000]
012	SMALL ARMS & LANDING PARTY AMMO .....	47,896	47,896
013	PYROTECHNIC AND DEMOLITION .....	10,621	10,621
015	AMMUNITION LESS THAN \$5 MILLION .....	2,386	2,386
	<b>MARINE CORPS AMMUNITION</b>		
016	MORTARS .....	55,543	50,543
	Prior year underexecution .....		[-5,000]
017	DIRECT SUPPORT MUNITIONS .....	131,765	131,765
018	INFANTRY WEAPONS AMMUNITION .....	78,056	74,556
	Underexecution and schedule delays .....		[-3,500]
019	COMBAT SUPPORT MUNITIONS .....	40,048	34,048
	Unit cost growth .....		[-6,000]
020	AMMO MODERNIZATION .....	14,325	14,325
021	ARTILLERY MUNITIONS .....	188,876	167,476
	DA 54 contract delay .....		[-21,400]
022	ITEMS LESS THAN \$5 MILLION .....	4,521	4,521
	<b>TOTAL PROCUREMENT OF AMMO, NAVY &amp; MC</b> .....	<b>981,314</b>	<b>878,414</b>
	<b>SHIPBUILDING AND CONVERSION, NAVY</b>		
	<b>FLEET BALLISTIC MISSILE SHIPS</b>		
001	OHIO REPLACEMENT SUBMARINE .....	1,698,907	1,823,907
	Submarine supplier development .....		[125,000]
	<b>OTHER WARSHIPS</b>		
002	CARRIER REPLACEMENT PROGRAM .....	2,347,000	1,952,000
	Basic construction/conversion excess cost growth .....		[-302,000]
	Propulsion equipment excess cost growth .....		[-93,000]
003	VIRGINIA CLASS SUBMARINE .....	7,155,946	6,605,946
	Block V MYP savings redirected to fund USS Boise, USS Hartford, and USS Columbus availabilities .....		[-550,000]
004	VIRGINIA CLASS SUBMARINE .....	2,769,552	2,769,552
005	CVN REFUELING OVERHAULS .....	647,926	453,926
	CVN-74 RCOH basic construction/conversion excess cost growth .....		[-165,000]
	CVN-74 RCOH ordnance excess cost growth .....		[-46,000]
	CVN-75 RCOH restoration .....		[17,000]
007	DDG 1000 .....	155,944	155,944
008	DDG-51 .....	5,099,295	5,013,295
	Basic ship construction excess cost growth .....		[-86,000]
009	DDG-51 .....	224,028	224,028
011	FFG-FRIGATE .....	1,281,177	1,266,177
	Change order early to need .....		[-15,000]
	<b>AMPHIBIOUS SHIPS</b>		
012	LPD FLIGHT II .....		100,000
	Transfer from line 13 .....		[100,000]
013	LPD FLIGHT II .....	247,100	147,100
	Transfer to line 12 .....		[-100,000]
017	EXPEDITIONARY FAST TRANSPORT (EFP) .....		49,000
	Medical transport modification for EFP-14 Navy unfunded priority .....		[49,000]
	<b>AUXILIARIES, CRAFT AND PRIOR YR PROGRAM COST</b>		

**SEC. 4101. PROCUREMENT**  
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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
018	TAO FLEET OILER .....	981,215	607,215
	Full funding early to need .....		[-447,000]
	Transfer from Line 19 .....		[73,000]
019	TAO FLEET OILER .....	73,000	0
	Transfer to Line 18 .....		[-73,000]
020	TOWING, SALVAGE, AND RESCUE SHIP (ATS) .....	150,282	150,282
022	LCU 1700 .....	85,670	85,670
023	OUTFITTING .....	754,679	643,554
	ESB-9 Outfitting early to need .....		[-11,125]
	Excess cost growth .....		[-100,000]
024	SHIP TO SHORE CONNECTOR .....		84,800
	Program increase .....		[130,000]
	Program decrease .....		[-45,200]
025	SERVICE CRAFT .....	56,289	56,289
028	COMPLETION OF PY SHIPBUILDING PROGRAMS .....	55,700	25,700
	ESB change order prior year carryover .....		[-30,000]
	<b>TOTAL SHIPBUILDING AND CONVERSION, NAVY .....</b>	<b>23,783,710</b>	<b>22,214,385</b>
	<b>OTHER PROCUREMENT, NAVY</b>		
	<b>SHIP PROPULSION EQUIPMENT</b>		
001	SURFACE POWER EQUIPMENT .....	14,490	14,490
	<b>GENERATORS</b>		
002	SURFACE COMBATANT HM&E .....	31,583	23,503
	Excess cost growth .....		[-8,080]
	<b>NAVIGATION EQUIPMENT</b>		
003	OTHER NAVIGATION EQUIPMENT .....	77,404	60,830
	Excess cost growth .....		[-16,574]
	<b>OTHER SHIPBOARD EQUIPMENT</b>		
004	SUB PERISCOPE, IMAGING AND SUPT EQUIP PROG .....	160,803	160,803
005	DDG MOD .....	566,140	566,140
006	FIREFIGHTING EQUIPMENT .....	18,223	18,223
007	COMMAND AND CONTROL SWITCHBOARD .....	2,086	2,086
008	LHA/LHD MIDLIFE .....	95,651	64,651
	Excess cost growth .....		[-31,000]
009	POLLUTION CONTROL EQUIPMENT .....	23,910	23,910
010	SUBMARINE SUPPORT EQUIPMENT .....	44,895	25,300
	Acoustic superiority early to need .....		[-11,855]
	Excess cost growth .....		[-7,740]
011	VIRGINIA CLASS SUPPORT EQUIPMENT .....	28,465	28,465
012	LCS CLASS SUPPORT EQUIPMENT .....	19,426	19,426
013	SUBMARINE BATTERIES .....	26,290	26,290
014	LPD CLASS SUPPORT EQUIPMENT .....	46,945	46,945
015	DDG 1000 CLASS SUPPORT EQUIPMENT .....	9,930	9,930
016	STRATEGIC PLATFORM SUPPORT EQUIP .....	14,331	14,331
017	DSSP EQUIPMENT .....	2,909	2,909
018	CG MODERNIZATION .....	193,990	193,990
019	LCAC .....	3,392	3,392
020	UNDERWATER EOD PROGRAMS .....	71,240	71,240
021	ITEMS LESS THAN \$5 MILLION .....	102,543	102,543
022	CHEMICAL WARFARE DETECTORS .....	2,961	2,961
023	SUBMARINE LIFE SUPPORT SYSTEM .....	6,635	6,635
	<b>REACTOR PLANT EQUIPMENT</b>		
024	REACTOR POWER UNITS .....	5,340	5,340
025	REACTOR COMPONENTS .....	465,726	465,726
	<b>OCEAN ENGINEERING</b>		
026	DIVING AND SALVAGE EQUIPMENT .....	11,854	10,706
	Excess cost growth .....		[-1,148]
	<b>SMALL BOATS</b>		
027	STANDARD BOATS .....	79,102	73,967
	Excess cost growth .....		[-5,135]
	<b>PRODUCTION FACILITIES EQUIPMENT</b>		
028	OPERATING FORCES IPE .....	202,238	202,238
	<b>OTHER SHIP SUPPORT</b>		
029	LCS COMMON MISSION MODULES EQUIPMENT .....	51,553	33,237
	Excess cost growth .....		[-18,316]
030	LCS MCM MISSION MODULES .....	197,129	77,129
	Excess cost growth .....		[-120,000]
031	LCS ASW MISSION MODULES .....	27,754	25,254
	Demonstrate alternate low frequency active sonar .....		[2,500]
	Excess cost growth .....		[-5,000]
032	LCS SUW MISSION MODULES .....	26,566	14,566
	Excess cost growth .....		[-12,000]
033	LCS IN-SERVICE MODERNIZATION .....	84,972	84,972
034	SMALL & MEDIUM UUV .....	40,547	10,601
	Early to need .....		[-29,946]
	<b>LOGISTIC SUPPORT</b>		
035	LSD MIDLIFE & MODERNIZATION .....	40,269	40,269
	<b>SHIP SONARS</b>		

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036	SPQ-9B RADAR .....	26,195	26,195
037	AN/SQQ-89 SURF ASW COMBAT SYSTEM .....	125,237	125,237
038	SSN ACOUSTIC EQUIPMENT .....	366,968	354,968
	<i>Low cost conformal array contract delay .....</i>		[-12,000]
039	UNDERSEA WARFARE SUPPORT EQUIPMENT .....	8,967	8,967
	<b>ASW ELECTRONIC EQUIPMENT</b>		
040	SUBMARINE ACOUSTIC WARFARE SYSTEM .....	23,545	23,545
041	SSTD .....	12,439	12,439
042	FIXED SURVEILLANCE SYSTEM .....	128,441	128,441
043	SURTASS .....	21,923	21,923
	<b>ELECTRONIC WARFARE EQUIPMENT</b>		
044	AN/SLQ-32 .....	420,154	420,154
	<b>RECONNAISSANCE EQUIPMENT</b>		
045	SHIPBOARD IW EXPLOIT .....	194,758	194,758
046	AUTOMATED IDENTIFICATION SYSTEM (AIS) .....	5,368	5,368
	<b>OTHER SHIP ELECTRONIC EQUIPMENT</b>		
047	COOPERATIVE ENGAGEMENT CAPABILITY .....	35,128	35,128
048	NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS) .....	15,154	15,154
049	ATDLS .....	52,753	52,753
050	NAVY COMMAND AND CONTROL SYSTEM (NCCS) .....	3,390	3,390
051	MINESWEEPING SYSTEM REPLACEMENT .....	19,448	19,448
052	SHALLOW WATER MCM .....	8,730	8,730
053	NAVSTAR GPS RECEIVERS (SPACE) .....	32,674	32,674
054	AMERICAN FORCES RADIO AND TV SERVICE .....	2,617	2,617
055	STRATEGIC PLATFORM SUPPORT EQUIP .....	7,973	7,973
	<b>AVIATION ELECTRONIC EQUIPMENT</b>		
056	ASHORE ATC EQUIPMENT .....	72,406	72,406
057	AFLOAT ATC EQUIPMENT .....	67,410	67,410
058	ID SYSTEMS .....	26,059	15,464
	<i>OE-120/UPX antenna insufficient budget justification .....</i>		[-10,595]
059	JOINT PRECISION APPROACH AND LANDING SYSTEM .....	92,695	61,348
	<i>Early to need .....</i>		[-31,347]
060	NAVAL MISSION PLANNING SYSTEMS .....	15,296	15,296
	<b>OTHER SHORE ELECTRONIC EQUIPMENT</b>		
061	TACTICAL/MOBILE C4I SYSTEMS .....	36,226	36,226
062	DCGS-N .....	21,788	21,788
063	CANES .....	426,654	396,654
	<i>Program decrease .....</i>		[-30,000]
064	RADLAC .....	6,450	6,450
065	CANES-INTELL .....	52,713	52,713
066	GPETE .....	13,028	13,028
067	MASF .....	5,193	5,193
068	INTEG COMBAT SYSTEM TEST FACILITY .....	6,028	6,028
069	EMI CONTROL INSTRUMENTATION .....	4,209	4,209
070	ITEMS LESS THAN \$5 MILLION .....	168,436	151,593
	<i>Excess cost growth .....</i>		[-16,843]
	<b>SHIPBOARD COMMUNICATIONS</b>		
071	SHIPBOARD TACTICAL COMMUNICATIONS .....	55,853	55,853
072	SHIP COMMUNICATIONS AUTOMATION .....	137,861	117,861
	<i>STACC cost growth .....</i>		[-20,000]
073	COMMUNICATIONS ITEMS UNDER \$5M .....	35,093	35,093
	<b>SUBMARINE COMMUNICATIONS</b>		
074	SUBMARINE BROADCAST SUPPORT .....	50,833	50,833
075	SUBMARINE COMMUNICATION EQUIPMENT .....	69,643	60,643
	<i>Buoy shape improvement unjustified request .....</i>		[-9,000]
	<b>SATELLITE COMMUNICATIONS</b>		
076	SATELLITE COMMUNICATIONS SYSTEMS .....	45,841	45,841
077	NAVY MULTIBAND TERMINAL (NMT) .....	88,021	88,021
	<b>SHORE COMMUNICATIONS</b>		
078	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE) .....	4,293	4,293
	<b>CRYPTOGRAPHIC EQUIPMENT</b>		
079	INFO SYSTEMS SECURITY PROGRAM (ISSP) .....	166,540	166,540
080	MIO INTEL EXPLOITATION TEAM .....	968	968
	<b>CRYPTOLOGIC EQUIPMENT</b>		
081	CRYPTOLOGIC COMMUNICATIONS EQUIP .....	13,090	13,090
	<b>OTHER ELECTRONIC SUPPORT</b>		
083	COAST GUARD EQUIPMENT .....	61,370	61,370
	<b>SONOBUOYS</b>		
085	SONOBUOYS—ALL TYPES .....	260,644	296,344
	<i>Navy unfunded priority .....</i>		[35,700]
	<b>AIRCRAFT SUPPORT EQUIPMENT</b>		
086	MINOTAUR .....	5,000	5,000
087	WEAPONS RANGE SUPPORT EQUIPMENT .....	101,843	94,843
	<i>Excess cost growth .....</i>		[-7,000]
088	AIRCRAFT SUPPORT EQUIPMENT .....	145,601	112,181
	<i>Excess cost growth .....</i>		[-20,000]
	<i>Program decrease .....</i>		[-13,420]
089	ADVANCED ARRESTING GEAR (AAG) .....	4,725	4,725

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090	METEOROLOGICAL EQUIPMENT .....	14,687	14,687
092	LEGACY AIRBORNE MCM .....	19,250	19,250
093	LAMPS EQUIPMENT .....	792	792
094	AVIATION SUPPORT EQUIPMENT .....	55,415	52,415
	Contract delay .....		[-3,000]
095	UMCS-UNMAN CARRIER AVIATION(UCA)MISSION CNTRL .....	32,668	32,668
	<b>SHIP GUN SYSTEM EQUIPMENT</b>		
096	SHIP GUN SYSTEMS EQUIPMENT .....	5,451	5,451
	<b>SHIP MISSILE SYSTEMS EQUIPMENT</b>		
097	HARPOON SUPPORT EQUIPMENT .....	1,100	1,100
098	SHIP MISSILE SUPPORT EQUIPMENT .....	228,104	243,304
	Excess cost growth .....		[-25,000]
	Program increase .....		[40,200]
099	TOMAHAWK SUPPORT EQUIPMENT .....	78,593	78,593
	<b>FBM SUPPORT EQUIPMENT</b>		
100	STRATEGIC MISSILE SYSTEMS EQUIP .....	280,510	280,510
	<b>ASW SUPPORT EQUIPMENT</b>		
101	SSN COMBAT CONTROL SYSTEMS .....	148,547	138,547
	Excess cost growth .....		[-10,000]
102	ASW SUPPORT EQUIPMENT .....	21,130	21,130
	<b>OTHER ORDNANCE SUPPORT EQUIPMENT</b>		
103	EXPLOSIVE ORDNANCE DISPOSAL EQUIP .....	15,244	15,244
104	ITEMS LESS THAN \$5 MILLION .....	5,071	5,071
	<b>OTHER EXPENDABLE ORDNANCE</b>		
105	ANTI-SHIP MISSILE DECOY SYSTEM .....	41,962	41,962
106	SUBMARINE TRAINING DEVICE MODS .....	75,057	75,057
107	SURFACE TRAINING EQUIPMENT .....	233,175	189,253
	LCS trainer equipment early to need .....		[-43,922]
	<b>CIVIL ENGINEERING SUPPORT EQUIPMENT</b>		
108	PASSENGER CARRYING VEHICLES .....	4,562	4,562
109	GENERAL PURPOSE TRUCKS .....	10,974	10,974
110	CONSTRUCTION & MAINTENANCE EQUIP .....	43,191	43,191
111	FIRE FIGHTING EQUIPMENT .....	21,142	11,642
	Contract delays .....		[-9,500]
112	TACTICAL VEHICLES .....	33,432	32,032
	JLTV contract delay .....		[-1,400]
114	POLLUTION CONTROL EQUIPMENT .....	2,633	2,633
115	ITEMS UNDER \$5 MILLION .....	53,467	53,467
116	PHYSICAL SECURITY VEHICLES .....	1,173	1,173
	<b>SUPPLY SUPPORT EQUIPMENT</b>		
117	SUPPLY EQUIPMENT .....	16,730	16,730
118	FIRST DESTINATION TRANSPORTATION .....	5,389	5,389
119	SPECIAL PURPOSE SUPPLY SYSTEMS .....	654,674	654,674
	<b>TRAINING DEVICES</b>		
120	TRAINING SUPPORT EQUIPMENT .....	3,633	3,633
121	TRAINING AND EDUCATION EQUIPMENT .....	97,636	82,536
	Reduction in one Training Support Vessel .....		[-15,100]
	<b>COMMAND SUPPORT EQUIPMENT</b>		
122	COMMAND SUPPORT EQUIPMENT .....	66,102	50,102
	Prior year underrecognition .....		[-16,000]
123	MEDICAL SUPPORT EQUIPMENT .....	3,633	3,633
125	NAVAL MIP SUPPORT EQUIPMENT .....	6,097	6,097
126	OPERATING FORCES SUPPORT EQUIPMENT .....	16,905	16,905
127	CAISR EQUIPMENT .....	30,146	30,146
128	ENVIRONMENTAL SUPPORT EQUIPMENT .....	21,986	21,986
129	PHYSICAL SECURITY EQUIPMENT .....	160,046	160,046
130	ENTERPRISE INFORMATION TECHNOLOGY .....	56,899	56,899
	<b>OTHER</b>		
133	NEXT GENERATION ENTERPRISE SERVICE .....	122,832	122,832
	<b>CLASSIFIED PROGRAMS</b>		
133A	CLASSIFIED PROGRAMS .....	16,346	16,346
	<b>SPARES AND REPAIR PARTS</b>		
134	SPARES AND REPAIR PARTS .....	375,608	352,140
	JPALS spares early to need .....		[-8,137]
	LCS spares early to need .....		[-15,331]
	<b>TOTAL OTHER PROCUREMENT, NAVY</b> .....	<b>9,652,956</b>	<b>9,146,967</b>
	<b>PROCUREMENT, MARINE CORPS</b>		
	<b>TRACKED COMBAT VEHICLES</b>		
001	AAV7A1 PIP .....	39,495	39,495
002	AMPHIBIOUS COMBAT VEHICLE 1.1 .....	317,935	313,135
	Excess engineering change orders .....		[-4,800]
003	LAV PIP .....	60,734	60,734
	<b>ARTILLERY AND OTHER WEAPONS</b>		
004	155MM LIGHTWEIGHT TOWED HOWITZER .....	25,065	25,065
005	ARTILLERY WEAPONS SYSTEM .....	100,002	90,002
	Equipment previously funded and cost growth .....		[-10,000]
006	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION .....	31,945	31,945

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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
	<b>OTHER SUPPORT</b>		
007	MODIFICATION KITS .....	22,760	22,760
	<b>GUIDED MISSILES</b>		
008	GROUND BASED AIR DEFENSE .....	175,998	175,998
009	ANTI-ARMOR MISSILE-JAVELIN .....	20,207	20,207
010	FAMILY ANTI-ARMOR WEAPON SYSTEMS (FOAAWS) .....	21,913	21,913
011	ANTI-ARMOR MISSILE-TOW .....	60,501	60,501
012	GUIDED MLRS ROCKET (GMLRS) .....	29,062	28,062
	Unit cost discrepancy .....		[-1,000]
	<b>COMMAND AND CONTROL SYSTEMS</b>		
013	COMMON AVIATION COMMAND AND CONTROL SYSTEM (C .....	37,203	32,203
	ANMRQ-13 communications subsystems upgrades unjustified growth .....		[-5,000]
	<b>REPAIR AND TEST EQUIPMENT</b>		
014	REPAIR AND TEST EQUIPMENT .....	55,156	55,156
	<b>OTHER SUPPORT (TEL)</b>		
015	MODIFICATION KITS .....	4,945	4,945
	<b>COMMAND AND CONTROL SYSTEM (NON-TEL)</b>		
016	ITEMS UNDER \$5 MILLION (COMM & ELEC) .....	112,124	83,124
	Unit cost growth .....		[-29,000]
017	AIR OPERATIONS C2 SYSTEMS .....	17,408	17,408
	<b>RADAR + EQUIPMENT (NON-TEL)</b>		
018	RADAR SYSTEMS .....	329	329
019	GROUND/AIR TASK ORIENTED RADAR (G/ATOR) .....	273,022	273,022
	<b>INTELL/COMM EQUIPMENT (NON-TEL)</b>		
021	GCSS-MC .....	4,484	4,484
022	FIRE SUPPORT SYSTEM .....	35,488	35,488
023	INTELLIGENCE SUPPORT EQUIPMENT .....	56,896	54,396
	Unjustified growth .....		[-2,500]
025	UNMANNED AIR SYSTEMS (INTEL) .....	34,711	34,711
026	DCGS-MC .....	32,562	32,562
	<b>OTHER SUPPORT (NON-TEL)</b>		
030	NEXT GENERATION ENTERPRISE NETWORK (NGEN) .....	114,901	114,901
031	COMMON COMPUTER RESOURCES .....	51,094	51,094
032	COMMAND POST SYSTEMS .....	108,897	108,897
033	RADIO SYSTEMS .....	227,320	212,320
	Cost growth and early to need .....		[-15,000]
034	COMM SWITCHING & CONTROL SYSTEMS .....	31,685	23,685
	ECP small form factor previously funded .....		[-8,000]
035	COMM & ELEC INFRASTRUCTURE SUPPORT .....	21,140	21,140
036	CYBERSPACE ACTIVITIES .....	27,632	27,632
	<b>CLASSIFIED PROGRAMS</b>		
036A	CLASSIFIED PROGRAMS .....	5,535	5,535
	<b>ADMINISTRATIVE VEHICLES</b>		
037	COMMERCIAL CARGO VEHICLES .....	28,913	28,913
	<b>TACTICAL VEHICLES</b>		
038	MOTOR TRANSPORT MODIFICATIONS .....	19,234	19,234
039	JOINT LIGHT TACTICAL VEHICLE .....	558,107	556,107
	ECP previously funded .....		[-2,000]
040	FAMILY OF TACTICAL TRAILERS .....	2,693	2,693
	<b>ENGINEER AND OTHER EQUIPMENT</b>		
041	ENVIRONMENTAL CONTROL EQUIP ASSORT .....	495	495
042	TACTICAL FUEL SYSTEMS .....	52	52
043	POWER EQUIPMENT ASSORTED .....	22,441	22,441
044	AMPHIBIOUS SUPPORT EQUIPMENT .....	7,101	7,101
045	EOD SYSTEMS .....	44,700	44,700
	<b>MATERIALS HANDLING EQUIPMENT</b>		
046	PHYSICAL SECURITY EQUIPMENT .....	15,404	15,404
	<b>GENERAL PROPERTY</b>		
047	FIELD MEDICAL EQUIPMENT .....	2,898	2,898
048	TRAINING DEVICES .....	149,567	126,567
	ODS unjustified request .....		[-23,000]
049	FAMILY OF CONSTRUCTION EQUIPMENT .....	35,622	35,622
050	ULTRA-LIGHT TACTICAL VEHICLE (ULTV) .....	647	647
	<b>OTHER SUPPORT</b>		
051	ITEMS LESS THAN \$5 MILLION .....	10,956	10,956
	<b>SPARES AND REPAIR PARTS</b>		
052	SPARES AND REPAIR PARTS .....	33,470	33,470
	<b>TOTAL PROCUREMENT, MARINE CORPS</b>	<b>3,090,449</b>	<b>2,990,149</b>
	<b>AIRCRAFT PROCUREMENT, AIR FORCE</b>		
	<b>TACTICAL FORCES</b>		
001	F-35 .....	4,274,359	5,126,409
	Program increase .....		[1,042,800]
	Target cost savings .....		[-190,750]
002	F-35 .....	655,500	655,500
003	F-15E .....	1,050,000	941,000
	Unjustified non-recurring engineering .....		[-109,000]
	<b>TACTICAL AIRLIFT</b>		

**SEC. 4101. PROCUREMENT**  
**(In Thousands of Dollars)**

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
005	KC-46A MDAP .....	2,234,529	2,199,705
	Excess to need .....		[-34,824]
	<b>OTHER AIRLIFT</b>		
006	C-130J .....	12,156	404,156
	Program increase .....		[392,000]
008	MC-130J .....	871,207	871,207
009	MC-130J .....	40,000	40,000
	<b>HELICOPTERS</b>		
010	COMBAT RESCUE HELICOPTER .....	884,235	876,235
	Excess to need .....		[-8,000]
	<b>MISSION SUPPORT AIRCRAFT</b>		
011	C-37A .....	161,000	161,000
012	CIVIL AIR PATROL A/C .....	2,767	2,767
	<b>OTHER AIRCRAFT</b>		
014	TARGET DRONES .....	130,837	130,837
015	COMPASS CALL .....	114,095	114,095
017	MQ-9 .....	189,205	313,005
	Program increase .....		[137,800]
	Unit cost growth .....		[-14,000]
	<b>STRATEGIC AIRCRAFT</b>		
019	B-2A .....	9,582	9,582
020	B-1B .....	22,111	22,111
021	B-52 .....	69,648	69,648
022	LARGE AIRCRAFT INFRARED COUNTERMEASURES .....	43,758	43,758
	<b>TACTICAL AIRCRAFT</b>		
023	A-10 .....	132,069	132,069
024	E-11 BACN/HAG .....	70,027	90,027
	Aircraft increase .....		[20,000]
025	F-15 .....	481,073	480,443
	F-15C MUOS ahead of need .....		[-630]
026	F-16 .....	234,782	234,782
028	F-22A .....	323,597	323,597
030	F-35 MODIFICATIONS .....	343,590	343,590
031	F-15 EPAW .....	149,047	25,047
	Prior-year carryover .....		[-124,000]
032	INCREMENT 3.2B .....	20,213	20,213
033	KC-46A MDAP .....	10,213	3,639
	Excess to need .....		[-6,574]
	<b>AIRLIFT AIRCRAFT</b>		
034	C-5 .....	73,550	73,550
036	C-17A .....	60,244	60,244
037	C-21 .....	216	216
038	C-32A .....	11,511	11,511
039	C-37A .....	435	435
	<b>TRAINER AIRCRAFT</b>		
040	GLIDER MODS .....	138	138
041	T-6 .....	11,826	11,826
042	T-1 .....	26,787	26,787
043	T-38 .....	37,341	45,041
	T-38 A/B ejection seat safety .....		[7,700]
	<b>OTHER AIRCRAFT</b>		
044	U-2 MODS .....	86,896	119,896
	Increase for U-2 enhancements .....		[33,000]
045	KC-10A (ATCA) .....	2,108	2,108
046	C-12 .....	3,021	3,021
047	VC-25A MOD .....	48,624	48,624
048	C-40 .....	256	256
049	C-130 .....	52,066	186,066
	3.5 Engine Enhancement Package .....		[79,000]
	NP-2000 prop blade upgrades .....		[55,000]
050	C-130J MODS .....	141,686	141,686
051	C-135 .....	124,491	124,491
053	COMPASS CALL .....	110,754	110,754
054	COMBAT FLIGHT INSPECTION—CFIN .....	508	508
055	RC-135 .....	227,673	227,673
056	E-3 .....	216,299	216,299
057	E-4 .....	58,477	58,477
058	E-8 .....	28,778	56,778
	Increase for re-engining .....		[28,000]
059	AIRBORNE WARNING AND CNTRL SYS (AWACS) 40/45 .....	36,000	36,000
060	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS .....	7,910	7,910
061	H-1 .....	3,817	3,817
062	H-60 .....	20,879	20,879
063	RQ-4 MODS .....	1,704	1,704
064	HC/MC-130 MODIFICATIONS .....	51,482	51,482
065	OTHER AIRCRAFT .....	50,098	50,098
066	MQ-9 MODS .....	383,594	251,594
	Production rate adjustment of DAS-4 sensor .....		[-132,000]

**SEC. 4101. PROCUREMENT**  
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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
068	CV-22 MODS .....	65,348	65,348
	<b>AIRCRAFT SPARES AND REPAIR PARTS</b>		
069	INITIAL SPARES/REPAIR PARTS .....	708,230	584,830
	Unjustified F-15C requirements .....		[-123,400]
	<b>COMMON SUPPORT EQUIPMENT</b>		
072	AIRCRAFT REPLACEMENT SUPPORT EQUIP .....	84,938	84,938
	<b>POST PRODUCTION SUPPORT</b>		
073	B-2A .....	1,403	1,403
074	B-2B .....	42,234	42,234
075	B-52 .....	4,641	4,641
076	C-17A .....	124,805	124,805
079	F-15 .....	2,589	2,589
081	F-16 .....	15,348	14,748
	Line shutdown early to need .....		[-600]
084	RQ-4 POST PRODUCTION CHARGES .....	47,246	47,246
	<b>INDUSTRIAL PREPAREDNESS</b>		
086	INDUSTRIAL RESPONSIVENESS .....	17,705	17,705
	<b>WAR CONSUMABLES</b>		
087	WAR CONSUMABLES .....	32,102	32,102
	<b>OTHER PRODUCTION CHARGES</b>		
088	OTHER PRODUCTION CHARGES .....	1,194,728	1,106,728
	F-22 NGEN lab excess .....		[-72,000]
	RQ-4 delayed obligations .....		[-16,000]
	<b>CLASSIFIED PROGRAMS</b>		
090A	CLASSIFIED PROGRAMS .....	34,193	34,193
	<b>TOTAL AIRCRAFT PROCUREMENT, AIR FORCE</b> .....	<b>16,784,279</b>	<b>17,747,801</b>
	<b>MISSILE PROCUREMENT, AIR FORCE</b>		
	<b>MISSILE REPLACEMENT EQUIPMENT—BALLISTIC</b>		
001	MISSILE REPLACEMENT EQ-BALLISTIC .....	55,888	55,888
	<b>TACTICAL</b>		
002	REPLAC EQUIP & WAR CONSUMABLES .....	9,100	9,100
003	JOINT AIR-TO-GROUND MUNITION .....	15,000	0
	Unjustified requirement (JAGM-F) .....		[-15,000]
004	JOINT AIR-SURFACE STANDOFF MISSILE .....	482,525	482,525
006	SIDEWINDER (AIM-9X) .....	160,408	160,408
007	AMRAAM .....	332,250	332,250
008	PREDATOR HELLFIRE MISSILE .....	118,860	111,160
	Unit cost savings .....		[-7,700]
009	SMALL DIAMETER BOMB .....	275,438	275,438
010	SMALL DIAMETER BOMB II .....	212,434	201,434
	Unit cost growth .....		[-11,000]
	<b>INDUSTRIAL FACILITIES</b>		
011	INDUSTRIAL PREPAREDNESS/POL PREVENTION .....	801	801
	<b>CLASS IV</b>		
012	ICBM FUZE MOD .....	5,000	5,000
013	ICBM FUZE MOD .....	14,497	14,497
014	MM III MODIFICATIONS .....	50,831	50,831
015	AGM-63D MAVERICK .....	294	294
016	AIR LAUNCH CRUISE MISSILE (ALCM) .....	77,387	77,387
	<b>MISSILE SPARES AND REPAIR PARTS</b>		
018	MSL SPARES/REPAIR PARTS (INITIAL) .....	1,910	1,910
019	REPLEN SPARES/REPAIR PARTS .....	82,490	82,490
	<b>SPECIAL PROGRAMS</b>		
023	SPECIAL UPDATE PROGRAMS .....	144,553	144,553
	<b>CLASSIFIED PROGRAMS</b>		
023A	CLASSIFIED PROGRAMS .....	849,521	849,521
	<b>TOTAL MISSILE PROCUREMENT, AIR FORCE</b> .....	<b>2,889,187</b>	<b>2,855,487</b>
	<b>SPACE PROCUREMENT, AIR FORCE</b>		
	<b>SPACE PROGRAMS</b>		
001	ADVANCED EHF .....	31,894	31,894
002	AF SATELLITE COMM SYSTEM .....	56,298	56,298
004	COUNTERSPACE SYSTEMS .....	5,700	5,700
005	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS .....	34,020	24,020
	Unjustified growth .....		[-10,000]
007	GENERAL INFORMATION TECH—SPACE .....	3,244	3,244
008	GPSIII FOLLOW ON .....	414,625	414,625
009	GPS III SPACE SEGMENT .....	31,466	31,466
012	SPACEBORNE EQUIP (COMSEC) .....	32,031	32,031
013	MILSATCOM .....	11,096	11,096
015	EVOLVED EXPENDABLE LAUNCH VEH(SPACE) .....	1,237,635	1,237,635
016	SBIR HIGH (SPACE) .....	233,952	218,012
	Unjustified growth .....		[-15,940]
017	NUDET DETECTION SYSTEM .....	7,432	7,432
018	ROCKET SYSTEMS LAUNCH PROGRAM .....	11,473	11,473
019	SPACE FENCE .....	71,784	50,284
	Unjustified growth .....		[-21,500]

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020	SPACE MODS .....	106,330	86,330
	Unjustified growth .....		[-20,000]
021	SPACELIFT RANGE SYSTEM SPACE .....	118,140	118,140
	<b>SSPARES</b>		
022	SPARES AND REPAIR PARTS .....	7,263	7,263
	<b>TOTAL SPACE PROCUREMENT, AIR FORCE .....</b>	<b>2,414,383</b>	<b>2,346,943</b>
	<b>PROCUREMENT OF AMMUNITION, AIR FORCE</b>		
	<b>ROCKETS</b>		
001	ROCKETS .....	133,268	115,268
	APKWS Mk 66 rocket motor price adjustment .....		[-18,000]
	<b>CARTRIDGES</b>		
002	CARTRIDGES .....	140,449	140,449
	<b>BOMBS</b>		
003	PRACTICE BOMBS .....	29,313	29,313
004	GENERAL PURPOSE BOMBS .....	85,885	85,885
006	JOINT DIRECT ATTACK MUNITION .....	1,066,224	1,019,224
	LJDAM sensor cost adjustment .....		[-10,000]
	Tailkit unit cost adjustment .....		[-37,000]
007	B61 .....	80,773	80,773
	<b>OTHER ITEMS</b>		
009	CAD/PAD .....	47,069	47,069
010	EXPLOSIVE ORDNANCE DISPOSAL (EOD) .....	6,133	6,133
011	SPARES AND REPAIR PARTS .....	533	533
012	MODIFICATIONS .....	1,291	1,291
013	ITEMS LESS THAN \$5,000,000 .....	1,677	1,677
	<b>FLARES</b>		
015	FLARES .....	36,116	36,116
	<b>FUZES</b>		
016	FUZES .....	1,734	1,734
	<b>SMALL ARMS</b>		
017	SMALL ARMS .....	37,496	32,496
	Program decrease .....		[-5,000]
	<b>TOTAL PROCUREMENT OF AMMUNITION, AIR FORCE .....</b>	<b>1,667,961</b>	<b>1,597,961</b>
	<b>OTHER PROCUREMENT, AIR FORCE</b>		
	<b>PASSENGER CARRYING VEHICLES</b>		
001	PASSENGER CARRYING VEHICLES .....	15,238	15,238
	<b>CARGO AND UTILITY VEHICLES</b>		
002	MEDIUM TACTICAL VEHICLE .....	34,616	29,616
	Unjustified unit cost increases .....		[-5,000]
003	CAP VEHICLES .....	1,040	3,567
	Program increase—communications .....		[1,867]
	Program increase—vehicles .....		[660]
004	CARGO AND UTILITY VEHICLES .....	23,133	18,588
	Program increase .....		[455]
	Program reduction .....		[-5,000]
	<b>SPECIAL PURPOSE VEHICLES</b>		
005	JOINT LIGHT TACTICAL VEHICLE .....	32,027	22,027
	Program reduction .....		[-10,000]
006	SECURITY AND TACTICAL VEHICLES .....	1,315	1,315
007	SPECIAL PURPOSE VEHICLES .....	14,593	9,593
	Program reduction—prior year carryover .....		[-5,000]
	<b>FIRE FIGHTING EQUIPMENT</b>		
008	FIRE FIGHTING/CRASH RESCUE VEHICLES .....	28,604	28,604
	<b>MATERIALS HANDLING EQUIPMENT</b>		
009	MATERIALS HANDLING VEHICLES .....	21,848	21,848
	<b>BASE MAINTENANCE SUPPORT</b>		
010	RUNWAY SNOW REMOV AND CLEANING EQU .....	2,925	3,259
	Program increase .....		[334]
011	BASE MAINTENANCE SUPPORT VEHICLES .....	55,776	52,876
	Program increase .....		[2,100]
	Program reduction .....		[-5,000]
	<b>COMM SECURITY EQUIPMENT(COMSEC)</b>		
013	COMSEC EQUIPMENT .....	91,461	91,461
	<b>INTELLIGENCE PROGRAMS</b>		
014	INTERNATIONAL INTEL TECH & ARCHITECTURES .....	11,386	11,386
015	INTELLIGENCE TRAINING EQUIPMENT .....	7,619	7,619
016	INTELLIGENCE COMM EQUIPMENT .....	35,558	32,058
	IMAD unjustified procurement .....		[-3,500]
	<b>ELECTRONICS PROGRAMS</b>		
017	AIR TRAFFIC CONTROL & LANDING SYS .....	17,939	17,939
019	BATTLE CONTROL SYSTEM—FIXED .....	3,063	3,063
021	WEATHER OBSERVATION FORECAST .....	31,447	31,447
022	STRATEGIC COMMAND AND CONTROL .....	5,090	5,090
023	CHEYENNE MOUNTAIN COMPLEX .....	10,145	10,145
024	MISSION PLANNING SYSTEMS .....	14,508	14,508
026	INTEGRATED STRAT PLAN & ANALY NETWORK (ISPAN) .....	9,901	9,901

**SEC. 4101. PROCUREMENT**  
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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>SPCL COMM-ELECTRONICS PROJECTS</b>			
027	GENERAL INFORMATION TECHNOLOGY .....	26,933	26,933
028	AF GLOBAL COMMAND & CONTROL SYS .....	2,756	2,756
029	BATTLEFIELD AIRBORNE CONTROL NODE (BACN) .....	48,478	48,478
030	MOBILITY COMMAND AND CONTROL .....	21,186	21,186
031	AIR FORCE PHYSICAL SECURITY SYSTEM .....	178,361	158,361
	Program reduction .....		[-20,000]
032	COMBAT TRAINING RANGES .....	233,993	247,593
	Joint threat emitter increase .....		[13,600]
033	MINIMUM ESSENTIAL EMERGENCY COMM N .....	132,648	132,648
034	WIDE AREA SURVEILLANCE (WAS) .....	80,818	47,929
	Program decrease .....		[-32,889]
035	C3 COUNTERMEASURES .....	25,036	25,036
036	INTEGRATED PERSONNEL AND PAY SYSTEM .....	20,900	20,900
037	GCSS-AF FOS .....	11,226	11,226
038	DEFENSE ENTERPRISE ACCOUNTING & MGT SYS .....	1,905	1,905
039	MAINTENANCE REPAIR & OVERHAUL INITIATIVE .....	1,912	1,912
040	THEATER BATTLE MGT C2 SYSTEM .....	6,337	6,337
041	AIR & SPACE OPERATIONS CENTER (AOC) .....	33,243	33,243
<b>AIR FORCE COMMUNICATIONS</b>			
043	BASE INFORMATION TRANSPRT INFRAST (BITI) WIRED .....	69,530	59,530
	Program decrease .....		[-10,000]
044	AFNET .....	147,063	147,063
045	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE) .....	6,505	6,505
046	USCENTCOM .....	20,190	20,190
047	USSTRATCOM .....	11,244	11,244
<b>ORGANIZATION AND BASE</b>			
048	TACTICAL C-E EQUIPMENT .....	143,757	143,757
050	RADIO EQUIPMENT .....	15,402	15,402
051	CCTV/AUDIOVISUAL EQUIPMENT .....	3,211	3,211
052	BASE COMM INFRASTRUCTURE .....	43,123	43,123
<b>MODIFICATIONS</b>			
053	COMM ELECT MODS .....	14,500	14,500
<b>PERSONAL SAFETY &amp; RESCUE EQUIP</b>			
054	PERSONAL SAFETY AND RESCUE EQUIPMENT .....	50,634	47,634
	Unit cost increase and early to need .....		[-3,000]
<b>DEPOT PLANT+MTRLS HANDLING EQ</b>			
055	POWER CONDITIONING EQUIPMENT .....	11,000	11,000
056	MECHANIZED MATERIAL HANDLING EQUIP .....	11,901	11,901
<b>BASE SUPPORT EQUIPMENT</b>			
057	BASE PROCURED EQUIPMENT .....	23,963	23,963
058	ENGINEERING AND EOD EQUIPMENT .....	34,124	34,124
059	MOBILITY EQUIPMENT .....	26,439	26,439
060	FUELS SUPPORT EQUIPMENT (FSE) .....	24,255	24,255
061	BASE MAINTENANCE AND SUPPORT EQUIPMENT .....	38,986	38,986
<b>SPECIAL SUPPORT PROJECTS</b>			
063	DARP RC135 .....	26,716	26,716
064	DCGS-AF .....	116,055	116,055
066	SPECIAL UPDATE PROGRAM .....	835,148	835,148
<b>CLASSIFIED PROGRAMS</b>			
066A	CLASSIFIED PROGRAMS .....	18,292,807	18,292,807
<b>SPARES AND REPAIR PARTS</b>			
067	SPARES AND REPAIR PARTS .....	81,340	81,340
	<b>TOTAL OTHER PROCUREMENT, AIR FORCE</b> .....	<b>21,342,857</b>	<b>21,262,484</b>
<b>PROCUREMENT, DEFENSE-WIDE</b>			
<b>MAJOR EQUIPMENT, OSD</b>			
022	MAJOR EQUIPMENT, DPAA .....	1,504	1,504
045	MAJOR EQUIPMENT, OSD .....	43,705	43,705
<b>MAJOR EQUIPMENT, NSA</b>			
044	INFORMATION SYSTEMS SECURITY PROGRAM (ISSP) .....	1,533	133
	Redignment to DISA for Sharkseer .....		[-1,400]
<b>MAJOR EQUIPMENT, WHS</b>			
049	MAJOR EQUIPMENT, WHS .....	507	507
<b>MAJOR EQUIPMENT, DISA</b>			
008	INFORMATION SYSTEMS SECURITY .....	3,318	4,718
	Redignment for Sharkseer .....		[1,400]
009	TELEPORT PROGRAM .....	25,103	25,103
010	ITEMS LESS THAN \$5 MILLION .....	26,416	26,416
012	DEFENSE INFORMATION SYSTEM NETWORK .....	17,574	17,574
014	WHITE HOUSE COMMUNICATION AGENCY .....	45,079	45,079
015	SENIOR LEADERSHIP ENTERPRISE .....	78,669	78,669
016	JOINT REGIONAL SECURITY STACKS (JRSS) .....	88,000	83,000
	Program decrease .....		[-5,000]
017	JOINT SERVICE PROVIDER .....	107,907	107,907
<b>MAJOR EQUIPMENT, DLA</b>			
019	MAJOR EQUIPMENT .....	8,122	8,122
<b>MAJOR EQUIPMENT, DSS</b>			

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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
023	MAJOR EQUIPMENT .....	496	496
	<b>MAJOR EQUIPMENT, TJS</b>		
046	MAJOR EQUIPMENT, TJS .....	6,905	6,905
047	MAJOR EQUIPMENT—TJS CYBER .....	1,458	1,458
	<b>MAJOR EQUIPMENT, MISSILE DEFENSE AGENCY</b>		
028	THAAD .....	425,863	425,863
029	GROUND BASED MIDCOURSE .....	9,471	9,471
031	AEGIS BMD .....	600,773	600,773
032	AEGIS BMD .....	96,995	96,995
033	BMDS AN/TPY-2 RADARS .....	10,046	10,046
034	ARROW 3 UPPER TIER SYSTEMS .....	55,000	55,000
035	SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD) .....	50,000	50,000
036	AEGIS ASHORE PHASE III .....	25,659	25,659
037	IRON DOME .....	95,000	95,000
038	AEGIS BMD HARDWARE AND SOFTWARE .....	124,986	124,986
	<b>MAJOR EQUIPMENT, DHRA</b>		
003	PERSONNEL ADMINISTRATION .....	5,030	5,030
	<b>MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY</b>		
025	VEHICLES .....	211	211
026	OTHER MAJOR EQUIPMENT .....	11,521	11,521
	<b>MAJOR EQUIPMENT, DODEA</b>		
021	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS .....	1,320	1,320
	<b>MAJOR EQUIPMENT, DCMA</b>		
002	MAJOR EQUIPMENT .....	2,432	2,432
	<b>MAJOR EQUIPMENT, DMACT</b>		
020	MAJOR EQUIPMENT .....	10,961	10,961
	<b>CLASSIFIED PROGRAMS</b>		
049A	CLASSIFIED PROGRAMS .....	589,366	589,366
	<b>AVIATION PROGRAMS</b>		
053	ROTARY WING UPGRADES AND SUSTAINMENT .....	172,020	172,020
054	UNMANNED ISR .....	15,208	15,208
055	NON-STANDARD AVIATION .....	32,310	32,310
056	U-28 .....	10,898	10,898
057	MH-47 CHINOOK .....	173,812	170,312
	Excess growth .....		[-3,500]
058	CV-22 MODIFICATION .....	17,256	17,256
059	MQ-9 UNMANNED AERIAL VEHICLE .....	5,338	5,338
060	PRECISION STRIKE PACKAGE .....	232,930	232,930
061	AC/MC-130J .....	173,419	153,119
	Realignment for RFCM .....		[-8,500]
	Realignment to Future Vertical Lift .....		[-8,800]
	RFCM excess to need .....		[-3,000]
062	C-130 MODIFICATIONS .....	15,582	15,582
	<b>SHIPBUILDING</b>		
063	UNDERWATER SYSTEMS .....	58,991	58,991
	<b>AMMUNITION PROGRAMS</b>		
064	ORDNANCE ITEMS <\$5M .....	279,992	279,992
	<b>OTHER PROCUREMENT PROGRAMS</b>		
065	INTELLIGENCE SYSTEMS .....	100,641	100,641
066	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS .....	12,522	12,522
067	OTHER ITEMS <\$5M .....	103,910	103,910
068	COMBATANT CRAFT SYSTEMS .....	33,088	33,088
069	SPECIAL PROGRAMS .....	63,467	63,467
070	TACTICAL VEHICLES .....	77,832	77,832
071	WARRIOR SYSTEMS <\$5M .....	298,480	298,480
072	COMBAT MISSION REQUIREMENTS .....	19,702	19,702
073	GLOBAL VIDEO SURVEILLANCE ACTIVITIES .....	4,787	4,787
074	OPERATIONAL ENHANCEMENTS INTELLIGENCE .....	8,175	8,175
075	OPERATIONAL ENHANCEMENTS .....	282,532	282,532
	<b>CBDP</b>		
076	CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS .....	162,406	162,406
077	CB PROTECTION & HAZARD MITIGATION .....	188,188	188,188
	<b>TOTAL PROCUREMENT, DEFENSE-WIDE</b>	<b>5,114,416</b>	<b>5,085,616</b>
	<b>JOINT URGENT OPERATIONAL NEEDS FUND</b>		
	<b>JOINT URGENT OPERATIONAL NEEDS FUND</b>		
001	JOINT URGENT OPERATIONAL NEEDS FUND .....	99,200	0
	Program decrease .....		[-99,200]
	<b>TOTAL JOINT URGENT OPERATIONAL NEEDS FUND</b>	<b>99,200</b>	<b>0</b>
	<b>TOTAL PROCUREMENT</b>	<b>132,343,701</b>	<b>130,592,919</b>

1 SEC. 4102. PROCUREMENT FOR OVERSEAS CONTINGENCY

2 OPERATIONS.

SEC. 4102. PROCUREMENT FOR OVERSEAS CONTINGENCY OPERATIONS  
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
<b>AIRCRAFT PROCUREMENT, ARMY</b>			
<b>FIXED WING</b>			
003	MQ-1 UAV .....	54,000	54,000
<b>ROTARY</b>			
015	CH-47 HELICOPTER .....	25,000	25,000
<b>MODIFICATION OF AIRCRAFT</b>			
021	MULTI SENSOR ABN RECON (MIP) .....	80,260	80,260
024	GRCS SEMA MODS (MIP) .....	750	750
026	EMARSS SEMA MODS (MIP) .....	22,180	22,180
027	UTILITY/CARGO AIRPLANE MODS .....	8,362	8,362
029	NETWORK AND MISSION PLAN .....	10	10
031	DEGRADED VISUAL ENVIRONMENT .....	49,450	0
	Early to need .....		[-49,450]
<b>GROUND SUPPORT AVIONICS</b>			
037	CMWS .....	130,219	130,219
038	COMMON INFRARED COUNTERMEASURES (CIRCM) .....	9,310	9,310
<b>OTHER SUPPORT</b>			
045	LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE XM2 .....	2,000	2,000
	<b>TOTAL AIRCRAFT PROCUREMENT, ARMY</b> .....	<b>381,541</b>	<b>332,091</b>
<b>MISSILE PROCUREMENT, ARMY</b>			
<b>SURFACE-TO-AIR MISSILE SYSTEM</b>			
002	M-SHORAD—PROCUREMENT .....	158,300	158,300
003	MSE MISSILE .....	37,938	37,938
<b>AIR-TO-SURFACE MISSILE SYSTEM</b>			
006	HELLFIRE SYS SUMMARY .....	236,265	236,265
<b>ANTI-TANK/ASSAULT MISSILE SYS</b>			
008	JAVELIN (LAWS-M) SYSTEM SUMMARY .....	4,389	4,389
011	GUIDED MLRS ROCKET (GMLRS) .....	431,596	431,596
014	ARMY TACTICAL MSL SYS (ATACMS)—SYS SUM .....	130,770	130,770
015	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) .....	83,300	83,300
<b>MODIFICATIONS</b>			
019	STINGER MODS .....	7,500	7,500
022	MLRS MODS .....	348,000	325,000
	Excess to need .....		[-23,000]
	<b>TOTAL MISSILE PROCUREMENT, ARMY</b> .....	<b>1,438,058</b>	<b>1,415,058</b>
<b>PROCUREMENT OF W&amp;TCV, ARMY</b>			
<b>TRACKED COMBAT VEHICLES</b>			
002	ARMORED MULTI PURPOSE VEHICLE (AMPV) .....	221,638	221,638
<b>MODIFICATION OF TRACKED COMBAT VEHICLES</b>			
003	STRYKER (MOD) .....	4,100	4,100
008	IMPROVED RECOVERY VEHICLE (M88A2 HERCULES) .....	80,146	80,146
013	M1 ABRAMS TANK (MOD) .....	13,100	13,100
<b>WEAPONS &amp; OTHER COMBAT VEHICLES</b>			
015	M240 MEDIUM MACHINE GUN (7.62MM) .....	900	900
016	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS .....	2,400	2,400
019	MORTAR SYSTEMS .....	18,941	18,941
020	XM320 GRENADE LAUNCHER MODULE (GLM) .....	526	526
023	CARBINE .....	1,183	1,183
025	COMMON REMOTELY OPERATED WEAPONS STATION .....	4,182	4,182
026	HANDGUN .....	248	248
<b>MOD OF WEAPONS AND OTHER COMBAT VEH</b>			
031	M2 50 CAL MACHINE GUN MODS .....	6,090	6,090
	<b>TOTAL PROCUREMENT OF W&amp;TCV, ARMY</b> .....	<b>353,454</b>	<b>353,454</b>
<b>PROCUREMENT OF AMMUNITION, ARMY</b>			
<b>SMALL/MEDIUM CAL AMMUNITION</b>			
001	CTG, 5.56MM, ALL TYPES .....	567	567
002	CTG, 7.62MM, ALL TYPES .....	40	40
003	CTG, HANDGUN, ALL TYPES .....	17	17
004	CTG, .50 CAL, ALL TYPES .....	189	189
007	CTG, 30MM, ALL TYPES .....	24,900	24,900
<b>ARTILLERY AMMUNITION</b>			
015	PROJ 155MM EXTENDED RANGE M982 .....	36,052	36,052
016	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL .....	7,271	7,271
<b>ROCKETS</b>			
018	SHOULDER LAUNCHED MUNITIONS, ALL TYPES .....	176	176
019	ROCKET, HYDRA 70, ALL TYPES .....	79,459	79,459
<b>MISCELLANEOUS</b>			
027	ITEMS LESS THAN \$5 MILLION (AMMO) .....	11	11
	<b>TOTAL PROCUREMENT OF AMMUNITION, ARMY</b> .....	<b>148,682</b>	<b>148,682</b>

**SEC. 4102. PROCUREMENT FOR OVERSEAS CONTINGENCY OPERATIONS**  
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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>OTHER PROCUREMENT, ARMY</b>			
<b>TACTICAL VEHICLES</b>			
010	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV) .....	26,917	26,917
011	PLS ESP .....	16,941	16,941
012	HVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV .....	62,734	62,734
014	TACTICAL WHEELED VEHICLE PROTECTION KITS .....	50,000	50,000
015	MODIFICATION OF IN SVC EQUIP .....	28,000	28,000
<b>COMM—JOINT COMMUNICATIONS</b>			
022	TACTICAL NETWORK TECHNOLOGY MOD IN SVC .....	40,000	40,000
<b>COMM—SATELLITE COMMUNICATIONS</b>			
029	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS .....	6,930	6,930
031	ASSURED POSITIONING, NAVIGATION AND TIMING .....	11,778	11,778
032	SMART-T (SPACE) .....	825	825
<b>COMM—COMBAT COMMUNICATIONS</b>			
040	RADIO TERMINAL SET, MIDS LVT(2) .....	350	350
047	COTS COMMUNICATIONS EQUIPMENT .....	20,400	20,400
048	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE .....	1,231	1,231
<b>COMM—INTELLIGENCE COMM</b>			
051	CI AUTOMATION ARCHITECTURE (MIP) .....	6,200	6,200
<b>COMM—LONG HAUL COMMUNICATIONS</b>			
059	BASE SUPPORT COMMUNICATIONS .....	20,482	15,482
	Insufficient budget justification .....		[-5,000]
<b>COMM—BASE COMMUNICATIONS</b>			
060	INFORMATION SYSTEMS .....	55,800	50,800
	Unjustified growth .....		[-5,000]
063	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM .....	75,820	75,820
<b>ELECT EQUIP—TACT INT REL ACT (TIARA)</b>			
068	DCGS-A (MIP) .....	38,613	38,613
070	TROJAN (MIP) .....	1,337	1,337
071	MOD OF IN-SVC EQUIP (INTEL SPT) (MIP) .....	2,051	2,051
075	BIOMETRIC TACTICAL COLLECTION DEVICES (MIP) .....	1,800	1,800
<b>ELECT EQUIP—ELECTRONIC WARFARE (EW)</b>			
082	FAMILY OF PERSISTENT SURVEILLANCE CAP. (MIP) .....	71,493	31,493
	Unjustified growth .....		[-40,000]
083	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES .....	6,917	6,917
<b>ELECT EQUIP—TACTICAL SURV. (TAC SURV)</b>			
085	SENTINEL MODS .....	20,000	20,000
086	NIGHT VISION DEVICES .....	3,676	3,676
094	JOINT BATTLE COMMAND—PLATFORM (JBC-P) .....	25,568	25,568
097	COMPUTER BALLISTICS: LHMCB XM32 .....	570	570
098	MORTAR FIRE CONTROL SYSTEM .....	15,975	15,975
<b>ELECT EQUIP—TACTICAL C2 SYSTEMS</b>			
103	AIR & MSL DEFENSE PLANNING & CONTROL SYS .....	14,331	14,331
<b>ELECT EQUIP—AUTOMATION</b>			
112	ARMY TRAINING MODERNIZATION .....	6,014	6,014
113	AUTOMATED DATA PROCESSING EQUIP .....	32,700	32,700
<b>CHEMICAL DEFENSIVE EQUIPMENT</b>			
124	FAMILY OF NON-LETHAL EQUIPMENT (FNLE) .....	25,480	25,480
125	BASE DEFENSE SYSTEMS (BDS) .....	47,110	47,110
126	CBRN DEFENSE .....	18,711	18,711
<b>BRIDGING EQUIPMENT</b>			
128	TACTICAL BRIDGING .....	4,884	4,884
<b>ENGINEER (NON-CONSTRUCTION) EQUIPMENT</b>			
133	GRND STANDOFF MINE DETECTN SYSM (GSTAMIDS) .....	4,500	4,500
135	HUSKY MOUNTED DETECTION SYSTEM (HMDS) .....	34,253	34,253
136	ROBOTIC COMBAT SUPPORT SYSTEM (RCSS) .....	3,300	3,300
140	RENDER SAFE SETS KITS OUTFITS .....	84,000	84,000
<b>COMBAT SERVICE SUPPORT EQUIPMENT</b>			
143	HEATERS AND ECUS .....	8	8
145	PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS) .....	5,101	5,101
146	GROUND SOLDIER SYSTEM .....	1,760	1,760
148	FORCE PROVIDER .....	56,400	56,400
150	CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM .....	2,040	2,040
<b>PETROLEUM EQUIPMENT</b>			
154	DISTRIBUTION SYSTEMS, PETROLEUM & WATER .....	13,986	13,986
<b>MEDICAL EQUIPMENT</b>			
155	COMBAT SUPPORT MEDICAL .....	2,735	2,735
<b>CONSTRUCTION EQUIPMENT</b>			
159	SCRAPERS, EARTHMOVING .....	4,669	4,669
160	LOADERS .....	380	380
162	TRACTOR, FULL TRACKED .....	8,225	8,225
164	HIGH MOBILITY ENGINEER EXCAVATOR (HMEE) .....	3,000	3,000
166	CONST EQUIP ESP .....	3,870	3,870
167	ITEMS LESS THAN \$5.0M (CONST EQUIP) .....	350	350
<b>GENERATORS</b>			
171	GENERATORS AND ASSOCIATED EQUIP .....	2,436	2,436
<b>MATERIAL HANDLING EQUIPMENT</b>			
173	FAMILY OF FORKLIFTS .....	5,152	5,152

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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
	<b>TRAINING EQUIPMENT</b>		
175	TRAINING DEVICES, NONSYSTEM .....	2,106	2,106
	<b>TEST MEASURE AND DIG EQUIPMENT (TMD)</b>		
181	INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) .....	1,395	1,395
	<b>OTHER SUPPORT EQUIPMENT</b>		
184	RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT .....	24,122	24,122
185	PHYSICAL SECURITY SYSTEMS (OPA3) .....	10,016	10,016
187	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) .....	33,354	33,354
189	BUILDING, PRE-FAB, RELOCATABLE .....	62,654	62,654
	<b>TOTAL OTHER PROCUREMENT, ARMY</b> .....	<b>1,131,450</b>	<b>1,081,450</b>
	<b>AIRCRAFT PROCUREMENT, NAVY</b>		
	<b>OTHER AIRCRAFT</b>		
026	STUASLo UAV .....	7,921	7,921
027	MQ-9A REAPER .....	77,000	0
	Unjustified OCO request .....		[-77,000]
	<b>MODIFICATION OF AIRCRAFT</b>		
036	EP-3 SERIES .....	5,488	5,488
046	SPECIAL PROJECT AIRCRAFT .....	3,498	3,498
051	COMMON ECM EQUIPMENT .....	3,406	3,406
053	COMMON DEFENSIVE WEAPON SYSTEM .....	3,274	3,274
062	QRC .....	18,458	18,458
	<b>TOTAL AIRCRAFT PROCUREMENT, NAVY</b> .....	<b>119,045</b>	<b>42,045</b>
	<b>WEAPONS PROCUREMENT, NAVY</b>		
	<b>TACTICAL MISSILES</b>		
011	JOINT AIR GROUND MISSILE (JAGM) .....	90,966	90,966
015	AERIAL TARGETS .....	6,500	6,500
	<b>TOTAL WEAPONS PROCUREMENT, NAVY</b> .....	<b>97,466</b>	<b>97,466</b>
	<b>PROCUREMENT OF AMMO, NAVY &amp; MC</b>		
	<b>NAVY AMMUNITION</b>		
001	GENERAL PURPOSE BOMBS .....	26,978	26,978
002	JDAM .....	12,263	12,263
003	AIRBORNE ROCKETS, ALL TYPES .....	45,020	45,020
004	MACHINE GUN AMMUNITION .....	33,577	33,577
005	PRACTICE BOMBS .....	11,903	11,903
006	CARTRIDGES & CART ACTUATED DEVICES .....	15,081	15,081
007	AIR EXPENDABLE COUNTERMEASURES .....	16,911	16,911
011	OTHER SHIP GUN AMMUNITION .....	3,262	3,262
012	SMALL ARMS & LANDING PARTY AMMO .....	1,010	1,010
013	PYROTECHNIC AND DEMOLITION .....	537	537
	<b>MARINE CORPS AMMUNITION</b>		
016	MORTARS .....	1,930	1,930
017	DIRECT SUPPORT MUNITIONS .....	1,172	1,172
018	INFANTRY WEAPONS AMMUNITION .....	2,158	2,158
019	COMBAT SUPPORT MUNITIONS .....	965	965
021	ARTILLERY MUNITIONS .....	32,047	32,047
	<b>TOTAL PROCUREMENT OF AMMO, NAVY &amp; MC</b> .....	<b>204,814</b>	<b>204,814</b>
	<b>OTHER PROCUREMENT, NAVY</b>		
	<b>OTHER SHIPBOARD EQUIPMENT</b>		
020	UNDERWATER EOD PROGRAMS .....	5,800	5,800
	<b>ASW ELECTRONIC EQUIPMENT</b>		
042	FIXED SURVEILLANCE SYSTEM .....	310,503	310,503
	<b>SONOBUOYS</b>		
085	SONOBUOYS—ALL TYPES .....	2,910	2,910
	<b>AIRCRAFT SUPPORT EQUIPMENT</b>		
088	AIRCRAFT SUPPORT EQUIPMENT .....	13,420	13,420
094	AVIATION SUPPORT EQUIPMENT .....	500	500
	<b>OTHER ORDNANCE SUPPORT EQUIPMENT</b>		
103	EXPLOSIVE ORDNANCE DISPOSAL EQUIP .....	15,307	15,307
	<b>CIVIL ENGINEERING SUPPORT EQUIPMENT</b>		
108	PASSENGER CARRYING VEHICLES .....	173	173
109	GENERAL PURPOSE TRUCKS .....	408	408
111	FIRE FIGHTING EQUIPMENT .....	785	785
	<b>SUPPLY SUPPORT EQUIPMENT</b>		
117	SUPPLY EQUIPMENT .....	100	100
118	FIRST DESTINATION TRANSPORTATION .....	510	510
	<b>COMMAND SUPPORT EQUIPMENT</b>		
122	COMMAND SUPPORT EQUIPMENT .....	2,800	2,800
123	MEDICAL SUPPORT EQUIPMENT .....	1,794	1,794
126	OPERATING FORCES SUPPORT EQUIPMENT .....	1,090	1,090
128	ENVIRONMENTAL SUPPORT EQUIPMENT .....	200	200
129	PHYSICAL SECURITY EQUIPMENT .....	1,300	1,300
	<b>TOTAL OTHER PROCUREMENT, NAVY</b> .....	<b>357,600</b>	<b>357,600</b>
	<b>PROCUREMENT, MARINE CORPS</b>		

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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
	<b>GUIDED MISSILES</b>		
012	GUIDED MLRS ROCKET (GMLRS) .....	16,919	16,919
	<b>ENGINEER AND OTHER EQUIPMENT</b>		
045	EOD SYSTEMS .....	3,670	3,670
	<b>TOTAL PROCUREMENT, MARINE CORPS</b> .....	<b>20,589</b>	<b>20,589</b>
	<b>AIRCRAFT PROCUREMENT, AIR FORCE</b>		
	<b>OTHER AIRCRAFT</b>		
017	MQ-9 .....	172,240	172,240
018	RQ-20B PUMA .....	12,150	12,150
	<b>STRATEGIC AIRCRAFT</b>		
022	LARGE AIRCRAFT INFRARED COUNTERMEASURES .....	53,335	53,335
	<b>OTHER AIRCRAFT</b>		
067	MQ-9 UAS PAYLOADS .....	19,800	19,800
	<b>AIRCRAFT SPARES AND REPAIR PARTS</b>		
069	INITIAL SPARES/REPAIR PARTS .....	44,560	44,560
	<b>COMMON SUPPORT EQUIPMENT</b>		
072	AIRCRAFT REPLACEMENT SUPPORT EQUIP .....	7,025	7,025
	<b>TOTAL AIRCRAFT PROCUREMENT, AIR FORCE</b> .....	<b>309,110</b>	<b>309,110</b>
	<b>MISSILE PROCUREMENT, AIR FORCE</b>		
	<b>TACTICAL</b>		
004	JOINT AIR-SURFACE STANDOFF MISSILE .....	20,900	20,900
008	PREDATOR HELLFIRE MISSILE .....	180,771	180,771
	<b>TOTAL MISSILE PROCUREMENT, AIR FORCE</b> .....	<b>201,671</b>	<b>201,671</b>
	<b>PROCUREMENT OF AMMUNITION, AIR FORCE</b>		
	<b>ROCKETS</b>		
001	ROCKETS .....	84,960	84,960
	<b>CARTRIDGES</b>		
002	CARTRIDGES .....	52,642	52,642
	<b>BOMBS</b>		
004	GENERAL PURPOSE BOMBS .....	545,309	545,309
	<b>FLARES</b>		
015	FLARES .....	93,272	93,272
	<b>FUZES</b>		
016	FUZES .....	157,155	157,155
	<b>SMALL ARMS</b>		
017	SMALL ARMS .....	6,095	6,095
	<b>TOTAL PROCUREMENT OF AMMUNITION, AIR FORCE</b> .....	<b>939,433</b>	<b>939,433</b>
	<b>OTHER PROCUREMENT, AIR FORCE</b>		
	<b>PASSENGER CARRYING VEHICLES</b>		
001	PASSENGER CARRYING VEHICLES .....	1,276	1,276
	<b>CARGO AND UTILITY VEHICLES</b>		
004	CARGO AND UTILITY VEHICLES .....	9,702	9,702
	<b>SPECIAL PURPOSE VEHICLES</b>		
005	JOINT LIGHT TACTICAL VEHICLE .....	40,999	40,999
007	SPECIAL PURPOSE VEHICLES .....	52,502	52,502
	<b>FIRE FIGHTING EQUIPMENT</b>		
008	FIRE FIGHTING/CRASH RESCUE VEHICLES .....	16,652	16,652
	<b>MATERIALS HANDLING EQUIPMENT</b>		
009	MATERIALS HANDLING VEHICLES .....	2,944	2,944
	<b>BASE MAINTENANCE SUPPORT</b>		
010	RUNWAY SNOW REMOV AND CLEANING EQU .....	3,753	3,753
011	BASE MAINTENANCE SUPPORT VEHICLES .....	11,837	11,837
	<b>SPCL COMM-ELECTRONICS PROJECTS</b>		
027	GENERAL INFORMATION TECHNOLOGY .....	5,000	5,000
031	AIR FORCE PHYSICAL SECURITY SYSTEM .....	106,919	106,919
	<b>ORGANIZATION AND BASE</b>		
048	TACTICAL C-E EQUIPMENT .....	306	306
052	BASE COMM INFRASTRUCTURE .....	4,300	4,300
	<b>PERSONAL SAFETY &amp; RESCUE EQUIP</b>		
054	PERSONAL SAFETY AND RESCUE EQUIPMENT .....	22,200	22,200
	<b>BASE SUPPORT EQUIPMENT</b>		
059	MOBILITY EQUIPMENT .....	26,535	26,535
060	FUELS SUPPORT EQUIPMENT (FSE) .....	4,040	4,040
061	BASE MAINTENANCE AND SUPPORT EQUIPMENT .....	20,067	20,067
	<b>CLASSIFIED PROGRAMS</b>		
066A	CLASSIFIED PROGRAMS .....	3,209,066	3,209,066
	<b>TOTAL OTHER PROCUREMENT, AIR FORCE</b> .....	<b>3,538,098</b>	<b>3,538,098</b>
	<b>PROCUREMENT, DEFENSE-WIDE</b>		
	<b>MAJOR EQUIPMENT, DISA</b>		
009	TELEPORT PROGRAM .....	3,800	3,800
012	DEFENSE INFORMATION SYSTEM NETWORK .....	12,000	12,000
	<b>MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY</b>		
027	COUNTER IED & IMPROVISED THREAT TECHNOLOGIES .....	4,590	4,590

**SEC. 4102. PROCUREMENT FOR OVERSEAS CONTINGENCY OPERATIONS**  
(In Thousands of Dollars)

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>CLASSIFIED PROGRAMS</b>			
049A	CLASSIFIED PROGRAMS .....	51,380	51,380
<b>AVIATION PROGRAMS</b>			
050	MANNED ISR .....	5,000	5,000
051	MC-12 .....	5,000	5,000
052	MH-60 BLACKHAWK .....	28,100	28,100
054	UNMANNED ISR .....	8,207	8,207
056	U-28 .....	31,500	31,500
057	MH-47 CHINOOK .....	37,500	34,500
	<i>Excess growth</i> .....		[−3,000]
059	MQ-9 UNMANNED AERIAL VEHICLE .....	1,900	1,900
<b>AMMUNITION PROGRAMS</b>			
064	ORDNANCE ITEMS <\$5M .....	138,252	138,252
<b>OTHER PROCUREMENT PROGRAMS</b>			
065	INTELLIGENCE SYSTEMS .....	16,500	16,500
067	OTHER ITEMS <\$5M .....	28	28
070	TACTICAL VEHICLES .....	2,990	2,990
071	WARRIOR SYSTEMS <\$5M .....	37,512	37,512
072	COMBAT MISSION REQUIREMENTS .....	10,000	10,000
074	OPERATIONAL ENHANCEMENTS INTELLIGENCE .....	7,594	7,594
075	OPERATIONAL ENHANCEMENTS .....	45,194	45,194
	<b>TOTAL PROCUREMENT, DEFENSE-WIDE</b> .....	<b>447,047</b>	<b>444,047</b>
<b>NATIONAL GUARD AND RESERVE EQUIPMENT UNDISTRIBUTED</b>			
	Program increase .....		[415,000]
	<b>TOTAL NATIONAL GUARD AND RESERVE EQUIPMENT</b> .....		<b>415,000</b>
	<b>TOTAL PROCUREMENT</b> .....	<b>9,688,058</b>	<b>9,900,608</b>

1 **TITLE XLII—RESEARCH, DEVELOPMENT, TEST, AND EVALUA-**  
 2 **TION**  
 3 **TION**

4 **SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUA-**  
 5 **TION.**

**SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**  
(In Thousands of Dollars)

<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, ARMY</b>				
<b>BASIC RESEARCH</b>				
002	0601102A	DEFENSE RESEARCH SCIENCES .....	297,976	297,976
003	0601103A	UNIVERSITY RESEARCH INITIATIVES .....	65,858	65,858
004	0601104A	UNIVERSITY AND INDUSTRY RESEARCH CENTERS .....	86,164	98,164
		Program increase .....		[7,000]
		Program increase—military medical innovation .....		[5,000]
005	0601121A	CYBER COLLABORATIVE RESEARCH ALLIANCE .....	4,982	4,982
		<b>SUBTOTAL BASIC RESEARCH</b> .....	<b>454,980</b>	<b>466,980</b>
<b>APPLIED RESEARCH</b>				
010	0602141A	LETHALITY TECHNOLOGY .....	26,961	26,961
011	0602142A	ARMY APPLIED RESEARCH II .....	25,319	25,319
012	0602143A	SOLDIER LETHALITY TECHNOLOGY .....	115,274	125,274
		Expeditionary mobile base camp technology .....		[5,000]
		HEROES program .....		[5,000]
013	0602144A	GROUND TECHNOLOGY .....	35,199	45,199
		High performance polymers research .....		[5,000]
		Manufacturing research technology .....		[5,000]
014	0602145A	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY .....	219,047	225,047
		Structural thermoplastics .....		[6,000]
015	0602146A	NETWORK C3I TECHNOLOGY .....	114,516	120,016
		Assured PNT lab .....		[3,000]
		Next generation SAR small sat .....		[2,500]
016	0602147A	LONG RANGE PRECISION FIRES TECHNOLOGY .....	74,327	79,327
		NextGen propulsion cycle artillery range extension .....		[5,000]

**SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**  
(In Thousands of Dollars)

<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
017	0602148A	FUTURE VERTICLE LIFT TECHNOLOGY .....	93,601	96,601
		Program increase .....		[3,000]
018	0602150A	AIR AND MISSILE DEFENSE TECHNOLOGY .....	50,771	50,771
020	0602213A	C3I APPLIED CYBER .....	18,947	18,947
023	0602307A	ADVANCED WEAPONS TECHNOLOGY .....		5,000
		Directed energy test range workloads .....		[5,000]
037	0602784A	MILITARY ENGINEERING TECHNOLOGY .....		5,000
		Cellulose nanocomposites research .....		[5,000]
038	0602785A	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY .....	20,873	20,873
040	0602787A	MEDICAL TECHNOLOGY .....	99,155	102,155
		Program increase .....		[3,000]
		<b>SUBTOTAL APPLIED RESEARCH .....</b>	<b>893,990</b>	<b>946,490</b>
<b>ADVANCED TECHNOLOGY DEVELOPMENT</b>				
041	0603001A	WARFIGHTER ADVANCED TECHNOLOGY .....		5,000
		Expeditionary maneuver support technologies .....		[5,000]
042	0603002A	MEDICAL ADVANCED TECHNOLOGY .....	42,030	42,030
047	0603007A	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY .....	11,038	11,038
050	0603117A	ARMY ADVANCED TECHNOLOGY DEVELOPMENT .....	63,338	63,338
051	0603118A	SOLDIER LETHALITY ADVANCED TECHNOLOGY .....	118,468	128,468
		Microlattice technology for combat helmet improvements .....		[5,000]
		Thermal mitigation technologies .....		[5,000]
052	0603119A	GROUND ADVANCED TECHNOLOGY .....	12,593	17,593
		Ground advanced technology for cold regions .....		[5,000]
059	0603457A	C3I CYBER ADVANCED DEVELOPMENT .....	13,769	13,769
060	0603461A	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM .....	184,755	224,755
		Program increase .....		[40,000]
061	0603462A	NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY .....	160,035	170,035
		Program increase—hydrogen fuel cells .....		[10,000]
062	0603463A	NETWORK C3I ADVANCED TECHNOLOGY .....	106,899	103,899
		Underexecution .....		[-3,000]
063	0603464A	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY .....	174,386	179,386
		Program increase missile demonstrations .....		[5,000]
064	0603465A	FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY .....	151,640	146,640
		Excess to need .....		[-5,000]
065	0603466A	AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY .....	60,613	60,613
		<b>SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT ...</b>	<b>1,099,564</b>	<b>1,166,564</b>
<b>ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES</b>				
073	0603305A	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION .....	10,987	30,987
		Conventional mission capabilities .....		[10,000]
		System lab integration improvements .....		[10,000]
074	0603327A	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING .....	15,148	15,148
075	0603619A	LANDMINE WARFARE AND BARRIER—ADV DEV .....	92,915	92,915
077	0603639A	TANK AND MEDIUM CALIBER AMMUNITION .....	82,146	82,146
078	0603645A	ARMORED SYSTEM MODERNIZATION—ADV DEV .....	157,656	157,656
079	0603747A	SOLDIER SUPPORT AND SURVIVABILITY .....	6,514	6,514
080	0603766A	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—ADV DEV .....	34,890	37,890
		Mobile ground terminal .....		[3,000]
081	0603774A	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT .....	251,011	206,011
		IVAS insufficient justification .....		[-45,000]
082	0603779A	ENVIRONMENTAL QUALITY TECHNOLOGY—DEM/VAL .....	15,132	15,132
083	0603790A	NATO RESEARCH AND DEVELOPMENT .....	5,406	5,406
084	0603801A	AVIATION—ADV DEV .....	459,290	443,340
		Early to need .....		[-15,950]
085	0603804A	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV .....	6,254	6,254
086	0603807A	MEDICAL SYSTEMS—ADV DEV .....	31,175	31,175
087	0603827A	SOLDIER SYSTEMS—ADVANCED DEVELOPMENT .....	22,113	22,113
088	0604017A	ROBOTICS DEVELOPMENT .....	115,222	115,222
090	0604021A	ELECTRONIC WARFARE TECHNOLOGY MATURATION (MIP) .....	18,043	18,043
091	0604100A	ANALYSIS OF ALTERNATIVES .....	10,023	10,023
092	0604113A	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS) .....	40,745	40,745
093	0604114A	LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR .....	427,772	427,772
094	0604115A	TECHNOLOGY MATURATION INITIATIVES .....	196,676	161,676
		Insufficient schedule detail .....		[-35,000]
095	0604117A	MANEUVER—SHORT RANGE AIR DEFENSE (M-SHORAD) .....	33,100	29,100
		Excess testing cost .....		[-4,000]
097	0604119A	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING .....	115,116	105,116
		Early to need .....		[-10,000]
099	0604121A	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT & PROTOTYPING .....	136,761	111,761
		Early to need (IVAS) .....		[-25,000]
100	0604182A	HYPERSONICS .....	228,000	259,000
		Transfer from RDTE Defense-Wide, line 124 .....		[31,000]
102	0604403A	FUTURE INTERCEPTOR .....	8,000	8,000

**SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**  
(In Thousands of Dollars)

<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
103	0604541A	UNIFIED NETWORK TRANSPORT .....	39,600	30,600
		Early to need .....		[-9,000]
104	0604644A	MOBILE MEDIUM RANGE MISSILE .....	20,000	0
		Program decrease .....		[-20,000]
106	0305251A	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT .....	52,102	52,102
107	1206120A	ASSURED POSITIONING, NAVIGATION AND TIMING (PNT) .....	192,562	150,062
		Project cancellation .....		[-42,500]
108	1206308A	ARMY SPACE SYSTEMS INTEGRATION .....	104,996	54,996
		Program delay .....		[-50,000]
		<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES</b>	<b>2,929,355</b>	<b>2,726,905</b>
		<b>SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>		
109	0604201A	AIRCRAFT AVIONICS .....	29,164	29,164
110	0604270A	ELECTRONIC WARFARE DEVELOPMENT .....	70,539	70,539
113	0604601A	INFANTRY SUPPORT WEAPONS .....	106,121	125,321
		Army unfunded priority—NGSW program increase .....		[19,200]
114	0604604A	MEDIUM TACTICAL VEHICLES .....	2,152	2,152
115	0604611A	JAVELIN .....	17,897	16,397
		Qualification testing early to need .....		[-1,500]
116	0604622A	FAMILY OF HEAVY TACTICAL VEHICLES .....	16,745	16,745
117	0604633A	AIR TRAFFIC CONTROL .....	6,989	6,989
118	0604642A	LIGHT TACTICAL WHEELED VEHICLES .....	10,465	10,465
119	0604645A	ARMORED SYSTEMS MODERNIZATION (ASM)—ENG DEV .....	310,152	295,152
		Program delay .....		[-15,000]
120	0604710A	NIGHT VISION SYSTEMS—ENG DEV .....	181,732	166,732
		Insufficient justification (IVAS) .....		[-15,000]
121	0604713A	COMBAT FEEDING, CLOTHING, AND EQUIPMENT .....	2,393	2,393
122	0604715A	NON-SYSTEM TRAINING DEVICES—ENG DEV .....	27,412	27,412
123	0604741A	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE—ENG DEV .....	43,502	38,502
		Historical underexecution .....		[-5,000]
124	0604742A	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT .....	11,636	11,636
125	0604746A	AUTOMATIC TEST EQUIPMENT DEVELOPMENT .....	10,915	10,915
126	0604760A	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—ENG DEV .....	7,801	7,801
127	0604768A	BRILLIANT ANTI-ARMOR SUBUNITION (BAT) .....	25,000	20,000
		PFAL excess .....		[-5,000]
128	0604780A	COMBINED ARMS TACTICAL TRAINER (CATT) CORE .....	9,241	9,241
129	0604798A	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION .....	42,634	38,634
		RCO support excess .....		[-4,000]
130	0604802A	WEAPONS AND MUNITIONS—ENG DEV .....	181,023	181,023
131	0604804A	LOGISTICS AND ENGINEER EQUIPMENT—ENG DEV .....	103,226	103,226
132	0604805A	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—ENG DEV .....	12,595	12,595
133	0604807A	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT—ENG DEV .....	48,264	48,264
134	0604808A	LANDMINE WARFARE/BARRIER—ENG DEV .....	39,208	39,208
135	0604818A	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE .....	140,637	138,137
		CPI2 testing previously funded .....		[-2,500]
136	0604820A	RADAR DEVELOPMENT .....	105,243	105,243
137	0604822A	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEB) .....	46,683	41,683
		Program decrease .....		[-5,000]
138	0604823A	FIREFINDER .....	17,294	17,294
139	0604827A	SOLDIER SYSTEMS—WARRIOR DEMVAL .....	5,803	4,803
		Historical underexecution .....		[-1,000]
140	0604852A	SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS—EMD .....	98,698	128,698
		Program increase for vehicle protection evaluation .....		[30,000]
141	0604854A	ARTILLERY SYSTEMS—EMD .....	15,832	10,832
		Mobile howitzer testing early to need .....		[-5,000]
142	0605013A	INFORMATION TECHNOLOGY DEVELOPMENT .....	126,537	126,537
143	0605018A	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A) .....	142,773	99,773
		Program decrease .....		[-43,000]
144	0605028A	ARMORED MULTI-PURPOSE VEHICLE (AMPV) .....	96,730	96,730
145	0605029A	INTEGRATED GROUND SECURITY SURVEILLANCE RESPONSE CAPABILITY (IGSSR-C) .....	6,699	6,699
146	0605030A	JOINT TACTICAL NETWORK CENTER (JTNC) .....	15,882	15,882
147	0605031A	JOINT TACTICAL NETWORK (JTN) .....	40,808	40,808
149	0605033A	GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM—EX-PEDITIONARY (GBOSS-E) .....	3,847	3,847
150	0605034A	TACTICAL SECURITY SYSTEM (TSS) .....	6,928	6,928
151	0605035A	COMMON INFRARED COUNTERMEASURES (CIRCM) .....	34,488	34,488
152	0605036A	COMBATING WEAPONS OF MASS DESTRUCTION (CWMD) .....	10,000	10,000
154	0605038A	NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE (NBRV) SENSOR SUITE .....	6,054	6,054
155	0605041A	DEFENSIVE CYBER TOOL DEVELOPMENT .....	62,262	62,262
156	0605042A	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER) .....	35,654	28,654
		Excess growth .....		[-7,000]
157	0605047A	CONTRACT WRITING SYSTEM .....	19,682	19,682

**SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**  
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<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
158	0605049A	MISSILE WARNING SYSTEM MODERNIZATION (MWSM) .....	1,539	1,539
159	0605051A	AIRCRAFT SURVIVABILITY DEVELOPMENT .....	64,557	64,557
160	0605052A	INDIRECT FIRE PROTECTION CAPABILITY INC 2—BLOCK 1 .....	243,228	243,228
161	0605053A	GROUND ROBOTICS .....	41,308	41,308
162	0605054A	EMERGING TECHNOLOGY INITIATIVES .....	45,896	41,896
		Testing and evaluation excess growth .....		[-4,000]
163	0605203A	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION .....	164,883	164,883
165	0605450A	JOINT AIR-TO-GROUND MISSILE (JAGM) .....	9,500	9,500
166	0605457A	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD) .....	208,938	203,938
		Testing and evaluation excess growth .....		[-5,000]
167	0605625A	MANNED GROUND VEHICLE .....	378,400	378,400
168	0605766A	NATIONAL CAPABILITIES INTEGRATION (MIP) .....	7,835	9,835
		Mobile ground terminal .....		[2,000]
169	0605812A	JOINT LIGHT TACTICAL VEHICLE (JLTV) ENGINEERING AND MANUFACTURING DEVELOPMENT PH. ....	2,732	7,232
		Army requested realignment from OPA 7 .....		[4,500]
170	0605830A	AVIATION GROUND SUPPORT EQUIPMENT .....	1,664	1,664
172	0303032A	TROJAN—RH12 .....	3,936	3,936
174	0304270A	ELECTRONIC WARFARE DEVELOPMENT .....	19,675	19,675
		<b>SUBTOTAL SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>	<b>3,549,431</b>	<b>3,487,131</b>
		<b>RDT&amp;E MANAGEMENT SUPPORT</b>		
176	0604256A	THREAT SIMULATOR DEVELOPMENT .....	14,117	14,117
177	0604258A	TARGET SYSTEMS DEVELOPMENT .....	8,327	8,327
178	0604759A	MAJOR T&E INVESTMENT .....	136,565	136,565
179	0605103A	RAND ARROYO CENTER .....	13,113	13,113
180	0605301A	ARMY KWAJALEIN ATOLL .....	238,691	226,691
		Program decrease .....		[-12,000]
181	0605326A	CONCEPTS EXPERIMENTATION PROGRAM .....	42,922	42,922
183	0605601A	ARMY TEST RANGES AND FACILITIES .....	334,468	334,468
184	0605602A	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS .....	46,974	51,974
		Program increase—space and missile cybersecurity .....		[5,000]
185	0605604A	SURVIVABILITY/LETHALITY ANALYSIS .....	35,075	35,075
186	0605606A	AIRCRAFT CERTIFICATION .....	3,461	3,461
187	0605702A	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES .....	6,233	6,233
188	0605706A	MATERIEL SYSTEMS ANALYSIS .....	21,342	21,342
189	0605709A	EXPLOITATION OF FOREIGN ITEMS .....	11,168	11,168
190	0605712A	SUPPORT OF OPERATIONAL TESTING .....	52,723	52,723
191	0605716A	ARMY EVALUATION CENTER .....	60,815	60,815
192	0605718A	ARMY MODELING & SIM X-CMD COLLABORATION & INTEG .....	2,527	2,527
193	0605801A	PROGRAMWIDE ACTIVITIES .....	58,175	61,175
		Program increase for transition costs .....		[3,000]
194	0605803A	TECHNICAL INFORMATION ACTIVITIES .....	25,060	25,060
195	0605805A	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY Advanced lightweight small arms and medium caliber ammunition ....	44,458	49,458
				[5,000]
196	0605857A	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT .....	4,681	4,681
197	0605898A	ARMY DIRECT REPORT HEADQUARTERS—R&D - MHA .....	53,820	53,820
198	0606001A	MILITARY GROUND-BASED CREW TECHNOLOGY .....	4,291	4,291
199	0606002A	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE .....	62,069	62,069
200	0606003A	COUNTERINTEL AND HUMAN INTEL MODERNIZATION .....	1,050	1,050
201	0606942A	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES ....	4,500	4,500
		<b>SUBTOTAL RDT&amp;E MANAGEMENT SUPPORT</b>	<b>1,286,625</b>	<b>1,287,625</b>
		<b>OPERATIONAL SYSTEMS DEVELOPMENT</b>		
204	0603778A	MLRS PRODUCT IMPROVEMENT PROGRAM .....	22,877	17,877
		HIMARS excess growth .....		[-5,000]
206	0605024A	ANTI-TAMPER TECHNOLOGY SUPPORT .....	8,491	8,491
207	0607131A	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS. LONG RANGE PRECISION FIRES (LRPF) .....	15,645	15,645
209	0607134A	BLACKHAWK PRODUCT IMPROVEMENT PROGRAM .....	164,182	164,182
211	0607136A	CHINOOK PRODUCT IMPROVEMENT PROGRAM .....	13,039	13,039
212	0607137A	FIXED WING PRODUCT IMPROVEMENT PROGRAM .....	174,371	174,371
213	0607138A	IMPROVED TURBINE ENGINE PROGRAM .....	4,545	4,545
214	0607139A	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT. Integrated munitions launcher early to need .....	206,434	206,434
216	0607142A	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS .....	24,221	14,221
				[-10,000]
217	0607143A	APACHE FUTURE DEVELOPMENT .....	32,016	32,016
218	0607145A	Unjustified request .....	5,448	448
				[-5,000]
219	0607312A	ARMY OPERATIONAL SYSTEMS DEVELOPMENT .....	49,526	49,526
220	0607665A	FAMILY OF BIOMETRICS .....	1,702	1,702
221	0607865A	PATRIOT PRODUCT IMPROVEMENT .....	96,430	96,430
222	0203728A	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM (JADOCs).	47,398	47,398
223	0203735A	COMBAT VEHICLE IMPROVEMENT PROGRAMS .....	334,463	324,463
		Early to need .....		[-10,000]

**SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**  
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<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
225	0203743A	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS .....	214,246	214,246
226	0203744A	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS. Excess to need .....	16,486	11,986
227	0203752A	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM .....	144	144
228	0203758A	DIGITIZATION .....	5,270	5,270
229	0203801A	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM .....	1,287	1,287
234	0205412A	ENVIRONMENTAL QUALITY TECHNOLOGY—OPERATIONAL SYSTEM DEV. Program decrease .....	732	732
235	0205456A	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM .....	107,746	107,746
236	0205778A	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS) .....	138,594	128,594
238	0303028A	SECURITY AND INTELLIGENCE ACTIVITIES .....	13,845	13,845
239	0303140A	INFORMATION SYSTEMS SECURITY PROGRAM .....	29,185	29,185
240	0303141A	GLOBAL COMBAT SUPPORT SYSTEM .....	68,976	58,976
241	0303150A	WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM .....	2,073	2,073
245	0305179A	INTEGRATED BROADCAST SERVICE (IBS) .....	459	459
246	0305204A	TACTICAL UNMANNED AERIAL VEHICLES .....	5,097	5,097
247	0305206A	AIRBORNE RECONNAISSANCE SYSTEMS .....	11,177	11,177
248	0305208A	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS .....	38,121	38,121
250	0305232A	RQ-11 UAV .....	3,218	3,218
251	0305233A	RQ-7 UAV .....	7,817	7,817
252	0307665A	BIOMETRICS ENABLED INTELLIGENCE .....	2,000	2,000
253	0708045A	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES .....	59,848	64,848
254	1203142A	SATCOM GROUND ENVIRONMENT (SPACE) .....	34,169	34,169
255	1208053A	JOINT TACTICAL GROUND SYSTEM .....	10,275	10,275
255A	999999999	CLASSIFIED PROGRAMS .....	7,273	7,273
		<b>SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT .....</b>	<b>1,978,826</b>	<b>1,929,326</b>
		<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, ARMY.</b>	<b>12,192,771</b>	<b>12,011,021</b>
		<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, NAVY</b>		
		<b>BASIC RESEARCH</b>		
001	0601103N	UNIVERSITY RESEARCH INITIATIVES .....	116,850	126,850
		Advanced radar research .....		[5,000]
		Defense University research initiatives .....		[5,000]
002	0601152N	IN-HOUSE LABORATORY INDEPENDENT RESEARCH .....	19,121	19,121
003	0601153N	DEFENSE RESEARCH SCIENCES .....	470,007	470,007
		<b>SUBTOTAL BASIC RESEARCH .....</b>	<b>605,978</b>	<b>615,978</b>
		<b>APPLIED RESEARCH</b>		
004	0602114N	POWER PROJECTION APPLIED RESEARCH .....	18,546	25,546
		Hypersonic testing facilities .....		[7,000]
005	0602123N	FORCE PROTECTION APPLIED RESEARCH .....	119,517	162,517
		Autonomous vehicle collaboration across maritime domains .....		[10,000]
		Cyber-physical research .....		[8,000]
		Energy resilience .....		[5,000]
		Hybrid composite struct. res. enhanced mobility .....		[5,000]
		Naval power and energy systems technology .....		[5,000]
		Program increase—direct air capture and blue carbon research .....		[10,000]
006	0602131M	MARINE CORPS LANDING FORCE TECHNOLOGY .....	56,604	61,604
		Interdisciplinary expeditionary cybersecurity research .....		[5,000]
007	0602235N	COMMON PICTURE APPLIED RESEARCH .....	49,297	49,297
008	0602236N	WARFIGHTER SUSTAINMENT APPLIED RESEARCH .....	63,825	68,825
		Warfighter safety and performance .....		[5,000]
009	0602271N	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH .....	83,497	83,497
010	0602435N	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH .....	63,894	63,894
011	0602651M	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH .....	6,346	6,346
012	0602747N	UNDERSEA WARFARE APPLIED RESEARCH .....	57,075	77,075
		Academic partnerships for undersea vehicle research .....		[10,000]
		Resident autonomous undersea robotics .....		[10,000]
013	0602750N	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH .....	154,755	154,755
014	0602782N	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH .....	36,074	36,074
015	0602792N	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH .....	153,062	153,062
016	0602861N	SCIENCE AND TECHNOLOGY MANAGEMENT—ONR FIELD ACTIVITIES. <b>SUBTOTAL APPLIED RESEARCH .....</b>	73,961	73,961
			<b>936,453</b>	<b>1,016,453</b>
		<b>ADVANCED TECHNOLOGY DEVELOPMENT</b>		
017	0603123N	FORCE PROTECTION ADVANCED TECHNOLOGY .....	35,286	35,286
018	0603271N	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY .....	9,499	9,499
019	0603640M	USMC ADVANCED TECHNOLOGY DEMONSTRATION (ATD) .....	172,847	177,847
		Program increase—modular advanced armed robotic system .....		[5,000]
020	0603651M	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT .....	13,307	13,307
021	0603673N	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEVELOPMENT.	231,907	231,907

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<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
022	0603680N	MANUFACTURING TECHNOLOGY PROGRAM .....	60,138	80,138
		Program increase .....		[20,000]
023	0603729N	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY .....	4,849	4,849
025	0603758N	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS .....	67,739	67,739
026	0603782N	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY .....	13,335	13,335
027	0603801N	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY DEVELOPMENT .....	133,303	176,303
		Electromagnetic railgun .....		[20,350]
		Program increase .....		[22,650]
		<b>SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT ...</b>	<b>742,210</b>	<b>810,210</b>
		<b>ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES</b>		
028	0603207N	AIR/OCEAN TACTICAL APPLICATIONS .....	32,643	32,643
029	0603216N	AVIATION SURVIVABILITY .....	11,919	11,919
030	0603251N	AIRCRAFT SYSTEMS .....	1,473	1,473
031	0603254N	ASW SYSTEMS DEVELOPMENT .....	7,172	7,172
032	0603261N	TACTICAL AIRBORNE RECONNAISSANCE .....	3,419	3,419
033	0603382N	ADVANCED COMBAT SYSTEMS TECHNOLOGY .....	64,694	64,694
034	0603502N	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES .....	507,000	312,200
		LUSV Design Contracts early to need .....		[-29,100]
		LUSV GFE early to need .....		[-79,200]
		LUSV program decrease .....		[-43,000]
		MUSV program increase .....		[43,000]
		Reduce one LUSV .....		[-86,500]
035	0603506N	SURFACE SHIP TORPEDO DEFENSE .....	15,800	15,800
036	0603512N	CARRIER SYSTEMS DEVELOPMENT .....	4,997	4,997
037	0603525N	PILOT FISH .....	291,148	291,148
038	0603527N	RETRACT LARCH .....	11,980	11,980
039	0603536N	RETRACT JUNIPER .....	129,163	129,163
040	0603542N	RADIOLOGICAL CONTROL .....	689	689
041	0603553N	SURFACE ASW .....	1,137	1,137
042	0603561N	ADVANCED SUBMARINE SYSTEM DEVELOPMENT .....	148,756	148,756
043	0603562N	SUBMARINE TACTICAL WARFARE SYSTEMS .....	11,192	11,192
044	0603563N	SHIP CONCEPT ADVANCED DESIGN .....	81,846	67,846
		Future surface combatant concept development concurrency .....		[-24,000]
		Program increase .....		[5,000]
		Program increase—moving target defense .....		[5,000]
045	0603564N	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES .....	69,084	59,084
		Program decrease .....		[-10,000]
046	0603570N	ADVANCED NUCLEAR POWER SYSTEMS .....	181,652	181,652
047	0603573N	ADVANCED SURFACE MACHINERY SYSTEMS .....	25,408	30,408
		Program increase .....		[5,000]
048	0603576N	CHALK EAGLE .....	64,877	64,877
049	0603581N	LITTORAL COMBAT SHIP (LCS) .....	9,934	9,934
050	0603582N	COMBAT SYSTEM INTEGRATION .....	17,251	17,251
051	0603595N	OHIO REPLACEMENT .....	419,051	419,051
052	0603596N	LCS MISSION MODULES .....	108,505	108,505
053	0603597N	AUTOMATED TEST AND ANALYSIS .....	7,653	7,653
054	0603599N	FRIGATE DEVELOPMENT .....	59,007	59,007
055	0603609N	CONVENTIONAL MUNITIONS .....	9,988	9,988
056	0603635M	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM .....	86,464	11,464
		Insufficient justification and contract delay .....		[-75,000]
057	0603654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT .....	33,478	33,478
058	0603713N	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT .....	5,619	5,619
059	0603721N	ENVIRONMENTAL PROTECTION .....	20,564	20,564
060	0603724N	NAVY ENERGY PROGRAM .....	26,514	49,514
		Battery development and safety enterprise .....		[13,000]
		Marine energy systems for sensors and microgrids .....		[10,000]
061	0603725N	FACILITIES IMPROVEMENT .....	3,440	3,440
062	0603734N	CHALK CORAL .....	346,800	346,800
063	0603739N	NAVY LOGISTIC PRODUCTIVITY .....	3,857	3,857
064	0603746N	RETRACT MAPLE .....	258,519	258,519
065	0603748N	LINK PLUMERIA .....	403,909	403,909
066	0603751N	RETRACT ELM .....	63,434	63,434
067	0603764N	LINK EVERGREEN .....	184,110	184,110
068	0603790N	NATO RESEARCH AND DEVELOPMENT .....	7,697	7,697
069	0603795N	LAND ATTACK TECHNOLOGY .....	9,086	9,086
070	0603851M	JOINT NON-LETHAL WEAPONS TESTING .....	28,466	28,466
071	0603860N	JOINT PRECISION APPROACH AND LANDING SYSTEMS—DE/VAL .....	51,341	51,341
072	0603925N	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS .....	118,169	118,169
073	0604014N	F/A -18 INFRARED SEARCH AND TRACK (IRST) .....	113,456	112,456
		Program delay .....		[-1,000]
074	0604027N	DIGITAL WARFARE OFFICE .....	50,120	50,120
075	0604028N	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES .....	32,527	32,527
076	0604029N	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES .....	54,376	54,376

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<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
077	0604030N	RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION.	36,197	36,197
078	0604031N	LARGE UNMANNED UNDERSEA VEHICLES .....	68,310	59,810
		Early to need .....		[-8,500]
079	0604112N	GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER (CVN 78—80).	121,310	121,310
080	0604126N	LITTORAL AIRBORNE MCM .....	17,248	17,248
081	0604127N	SURFACE MINE COUNTERMEASURES .....	18,735	18,735
082	0604272N	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES (TADIRCM).	68,346	58,346
		Excess to need .....		[-10,000]
084	0604289M	NEXT GENERATION LOGISTICS .....	4,420	4,420
085	0604320M	RAPID TECHNOLOGY CAPABILITY PROTOTYPE .....	4,558	4,558
086	0604454N	LX (R) .....	12,500	12,500
087	0604536N	ADVANCED UNDERSEA PROTOTYPING .....	181,967	174,437
		ORCA XLUV prior year carryover .....		[-7,530]
088	0604636N	COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS) .....	5,500	5,500
089	0604659N	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM .....	718,148	638,148
		Excess growth .....		[-80,000]
090	0604707N	SPACE AND ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINEERING SUPPORT.	5,263	5,263
091	0604786N	OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT	65,419	65,419
092	0303354N	ASW SYSTEMS DEVELOPMENT—MIP .....	9,991	9,991
093	0304240M	ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM .....	21,157	39,637
		KMAX Large Unmanned Logistics System USMC unfunded priority		[18,500]
095	0304270N	ELECTRONIC WARFARE DEVELOPMENT—MIP .....	609	609
		<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES.</b>	<b>5,559,062</b>	<b>5,204,732</b>
		<b>SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>		
096	0603208N	TRAINING SYSTEM AIRCRAFT .....	15,514	15,514
097	0604212N	OTHER HELO DEVELOPMENT .....	28,835	28,835
098	0604214M	AV—SB AIRCRAFT—ENG DEV .....	27,441	27,441
100	0604215N	STANDARDS DEVELOPMENT .....	3,642	3,642
101	0604216N	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT .....	19,196	19,196
104	0604230N	WARFARE SUPPORT SYSTEM .....	8,601	8,601
105	0604231N	TACTICAL COMMAND SYSTEM .....	77,232	77,232
106	0604234N	ADVANCED HAWKEYE .....	232,752	232,752
107	0604245M	H—1 UPGRADES .....	65,359	64,859
		Support cost growth .....		[-500]
109	0604261N	ACOUSTIC SEARCH SENSORS .....	47,013	47,013
110	0604262N	V—22A .....	185,105	172,105
		Excess to need .....		[-13,000]
111	0604264N	AIR CREW SYSTEMS DEVELOPMENT .....	21,172	21,172
112	0604269N	EA—18 .....	143,585	123,585
		Unjustified cost growth .....		[-20,000]
113	0604270N	ELECTRONIC WARFARE DEVELOPMENT .....	116,811	109,651
		Unjustified request .....		[-7,160]
114	0604273M	EXECUTIVE HELO DEVELOPMENT .....	187,436	187,436
116	0604274N	NEXT GENERATION JAMMER (NGJ) .....	524,261	443,261
		Underexecution .....		[-81,000]
117	0604280N	JOINT TACTICAL RADIO SYSTEM—NAVY (JTRS-NAVY) .....	192,345	190,845
		Early to need .....		[-1,500]
118	0604282N	NEXT GENERATION JAMMER (NGJ) INCREMENT II .....	111,068	111,068
119	0604307N	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING .....	415,625	415,625
120	0604311N	LPD—17 CLASS SYSTEMS INTEGRATION .....	640	640
121	0604329N	SMALL DIAMETER BOMB (SDB) .....	50,096	50,096
122	0604366N	STANDARD MISSILE IMPROVEMENTS .....	232,391	232,391
123	0604373N	AIRBORNE MCM .....	10,916	10,916
124	0604378N	NAVAL INTEGRATED FIRE CONTROL—COUNTER AIR SYSTEMS ENGINEERING.	33,379	33,379
125	0604501N	ADVANCED ABOVE WATER SENSORS .....	34,554	34,554
126	0604503N	SSN—688 AND TRIDENT MODERNIZATION .....	84,663	84,663
127	0604504N	AIR CONTROL .....	44,923	44,923
128	0604512N	SHIPBOARD AVIATION SYSTEMS .....	10,632	10,632
129	0604518N	COMBAT INFORMATION CENTER CONVERSION .....	16,094	16,094
130	0604522N	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM .....	55,349	55,349
131	0604530N	ADVANCED ARRESTING GEAR (AAG) .....	123,490	123,490
132	0604558N	NEW DESIGN SSN .....	121,010	121,010
133	0604562N	SUBMARINE TACTICAL WARFARE SYSTEM .....	62,426	62,426
134	0604567N	SHIP CONTRACT DESIGN/ LIVE FIRE T&E .....	46,809	56,809
		Program increase—DDG—51 advanced degaussing .....		[10,000]
135	0604574N	NAVY TACTICAL COMPUTER RESOURCES .....	3,692	3,692
137	0604601N	MINE DEVELOPMENT .....	28,964	28,964
138	0604610N	LIGHTWEIGHT TORPEDO DEVELOPMENT .....	148,349	127,349
		Excess to need .....		[-21,000]
139	0604654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT .....	8,237	8,237
140	0604657M	USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS—ENG DEV.	22,000	22,000

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Line	Program Element	Item	FY 2020 Request	House Authorized
141	0604703N	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS .....	5,500	5,500
142	0604727N	JOINT STANDOFF WEAPON SYSTEMS .....	18,725	16,225
		Excess to need .....		[-2,500]
143	0604755N	SHIP SELF DEFENSE (DETECT & CONTROL) .....	192,603	192,603
144	0604756N	SHIP SELF DEFENSE (ENGAGE: HARD KILL) .....	137,268	137,268
145	0604757N	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW) .....	97,363	97,363
146	0604761N	INTELLIGENCE ENGINEERING .....	26,710	26,710
147	0604771N	MEDICAL DEVELOPMENT .....	8,181	13,181
		Enterotoxigenic escherichia coli research .....		[5,000]
148	0604777N	NAVIGATION/ID SYSTEM .....	40,755	40,755
149	0604800M	JOINT STRIKE FIGHTER (JSF)—EMD .....	1,710	1,710
150	0604800N	JOINT STRIKE FIGHTER (JSF)—EMD .....	1,490	1,490
153	0605013M	INFORMATION TECHNOLOGY DEVELOPMENT .....	1,494	1,494
154	0605013N	INFORMATION TECHNOLOGY DEVELOPMENT .....	384,162	370,662
		Unjustified growth over FY19 projection .....		[-13,500]
155	0605024N	ANTI-TAMPER TECHNOLOGY SUPPORT .....	4,882	4,882
156	0605212M	CH-53K RDTE .....	516,955	496,955
		Excess to need .....		[-20,000]
158	0605215N	MISSION PLANNING .....	75,886	75,886
159	0605217N	COMMON AVIONICS .....	43,187	43,187
160	0605220N	SHIP TO SHORE CONNECTOR (SSC) .....	4,909	4,909
161	0605327N	T-AO 205 CLASS .....	1,682	1,682
162	0605414N	UNMANNED CARRIER AVIATION (UCA) .....	671,258	671,258
163	0605450M	JOINT AIR-TO-GROUND MISSILE (JAGM) .....	18,393	12,393
		Schedule delays .....		[-6,000]
165	0605500N	MULTI-MISSION MARITIME AIRCRAFT (MMA) .....	21,472	21,472
166	0605504N	MULTI-MISSION MARITIME (MMA) INCREMENT III .....	177,234	177,234
167	0605611M	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT & DEMONSTRATION.	77,322	69,121
		Early to need .....		[-2,201]
		Excess growth .....		[-6,000]
168	0605813M	JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT & DEMONSTRATION.	2,105	2,105
169	0204202N	DDG-1000 .....	111,435	111,435
172	0304785N	TACTICAL CRYPTOLOGIC SYSTEMS .....	101,339	101,339
173	0306250M	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT .....	26,406	26,406
		<b>SUBTOTAL SYSTEM DEVELOPMENT &amp; DEMONSTRATION.</b>	<b>6,332,033</b>	<b>6,152,672</b>
		<b>MANAGEMENT SUPPORT</b>		
174	0604256N	THREAT SIMULATOR DEVELOPMENT .....	66,678	66,678
175	0604258N	TARGET SYSTEMS DEVELOPMENT .....	12,027	12,027
176	0604759N	MAJOR T&E INVESTMENT .....	85,348	85,348
178	0605152N	STUDIES AND ANALYSIS SUPPORT—NAVY .....	3,908	3,908
179	0605154N	CENTER FOR NAVAL ANALYSES .....	47,669	47,669
180	0605285N	NEXT GENERATION FIGHTER .....	20,698	20,698
182	0605804N	TECHNICAL INFORMATION SERVICES .....	988	988
183	0605853N	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT .....	102,401	102,401
184	0605856N	STRATEGIC TECHNICAL SUPPORT .....	3,742	3,742
186	0605863N	RDTE SHIP AND AIRCRAFT SUPPORT .....	93,872	93,872
187	0605864N	TEST AND EVALUATION SUPPORT .....	394,020	394,020
188	0605865N	OPERATIONAL TEST AND EVALUATION CAPABILITY .....	25,145	25,145
189	0605866N	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT .....	15,773	15,773
190	0605867N	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT .....	8,402	8,402
191	0605873M	MARINE CORPS PROGRAM WIDE SUPPORT .....	37,265	29,265
		Unjustified growth .....		[-8,000]
192	0605898N	MANAGEMENT HQ—R&D .....	39,673	39,673
193	0606355N	WARFARE INNOVATION MANAGEMENT .....	28,750	28,750
196	0305327N	INSIDER THREAT .....	2,645	2,645
197	0902498N	MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES).	1,460	1,460
		<b>SUBTOTAL MANAGEMENT SUPPORT</b>	<b>990,464</b>	<b>982,464</b>
		<b>OPERATIONAL SYSTEMS DEVELOPMENT</b>		
202	0604227N	HARPOON MODIFICATIONS .....	2,302	2,302
203	0604840M	F-35 C2D2 .....	422,881	422,881
204	0604840N	F-35 C2D2 .....	383,741	383,741
205	0607658N	COOPERATIVE ENGAGEMENT CAPABILITY (CEC) .....	127,924	127,924
207	0101221N	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT .....	157,676	157,676
208	0101224N	SSBN SECURITY TECHNOLOGY PROGRAM .....	43,354	43,354
209	0101226N	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT .....	6,815	6,815
210	0101402N	NAVY STRATEGIC COMMUNICATIONS .....	31,174	31,174
211	0204136N	F/A-18 SQUADRONS .....	213,715	216,215
		Block III support prior year carryover .....		[-7,500]
		Jet noise reduction research .....		[10,000]
213	0204228N	SURFACE SUPPORT .....	36,389	45,389
		WSN-12 Technology Insertion .....		[9,000]
214	0204229N	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC).	320,134	320,134

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<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
215	0204311N	INTEGRATED SURVEILLANCE SYSTEM .....	88,382	88,382
216	0204313N	SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS .....	14,449	14,449
217	0204413N	AMPHIBIOUS TACTICAL SUPPORT UNITS (DISPLACEMENT CRAFT) .....	6,931	6,931
218	0204460M	GROUND/AIR TASK ORIENTED RADAR (GATOR) .....	23,891	23,891
219	0204571N	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT .....	129,873	129,873
221	0204575N	ELECTRONIC WARFARE (EW) READINESS SUPPORT .....	82,325	62,325
		Prior year carryover .....		[-20,000]
222	0205601N	HARM IMPROVEMENT .....	138,431	132,431
		AARGM ER test schedule discrepancy .....		[-6,000]
224	0205620N	SURFACE ASW COMBAT SYSTEM INTEGRATION .....	29,572	29,572
225	0205632N	MK-48 ADCAP .....	85,973	85,973
226	0205633N	AVIATION IMPROVEMENTS .....	125,461	125,461
227	0205675N	OPERATIONAL NUCLEAR POWER SYSTEMS .....	106,192	106,192
228	0206313M	MARINE CORPS COMMUNICATIONS SYSTEMS .....	143,317	134,317
		Program delay .....		[-9,000]
229	0206335M	COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S) ...	4,489	4,489
230	0206623M	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS .....	51,788	51,788
231	0206624M	MARINE CORPS COMBAT SERVICES SUPPORT .....	37,761	37,761
232	0206625M	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP) ...	21,458	21,458
233	0206629M	AMPHIBIOUS ASSAULT VEHICLE .....	5,476	5,476
234	0207161N	TACTICAL AIM MISSILES .....	19,488	19,488
235	0207163N	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM) .....	39,029	34,529
		Prior year carryover .....		[-4,500]
239	0303109N	SATELLITE COMMUNICATIONS (SPACE) .....	34,344	34,344
240	0303138N	CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES (CANES) .....	22,873	22,873
241	0303140N	INFORMATION SYSTEMS SECURITY PROGRAM .....	41,853	41,853
243	0305192N	MILITARY INTELLIGENCE PROGRAM (MIP) ACTIVITIES .....	8,913	8,913
244	0305204N	TACTICAL UNMANNED AERIAL VEHICLES .....	9,451	9,451
245	0305205N	UAS INTEGRATION AND INTEROPERABILITY .....	42,315	42,315
246	0305208M	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS .....	22,042	22,042
248	0305220N	MQ-4C TRITON .....	11,784	11,784
249	0305231N	MQ-8 UAV .....	29,618	29,618
250	0305232M	RQ-11 UAV .....	509	509
251	0305234N	SMALL (LEVEL 0) TACTICAL UAS (STUASLo) .....	11,545	11,545
252	0305239M	RQ-21A .....	10,914	10,914
253	0305241N	MULTI-INTELLIGENCE SENSOR DEVELOPMENT .....	70,612	70,612
254	0305242M	UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP) .....	3,704	3,704
255	0305421N	RQ-4 MODERNIZATION .....	202,346	202,346
256	0308601N	MODELING AND SIMULATION SUPPORT .....	7,119	7,119
257	0702207N	DEPOT MAINTENANCE (NON-IF) .....	38,182	38,182
258	0708730N	MARITIME TECHNOLOGY (MARITECH) .....	6,779	6,779
259	1203109N	SATELLITE COMMUNICATIONS (SPACE) .....	15,868	15,868
259A	999999999	CLASSIFIED PROGRAMS .....	1,613,137	1,613,137
		<b>SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT</b> .....	<b>5,104,299</b>	<b>5,076,299</b>
		<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, NAVY.</b>	<b>20,270,499</b>	<b>19,858,808</b>
		<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, AF</b>		
		<b>BASIC RESEARCH</b>		
001	0601102F	DEFENSE RESEARCH SCIENCES .....	356,107	356,107
002	0601103F	UNIVERSITY RESEARCH INITIATIVES .....	158,859	158,859
003	0601108F	HIGH ENERGY LASER RESEARCH INITIATIVES .....	14,795	14,795
		<b>SUBTOTAL BASIC RESEARCH</b> .....	<b>529,761</b>	<b>529,761</b>
		<b>APPLIED RESEARCH</b>		
004	0602102F	MATERIALS .....	128,851	143,851
		Advanced thermal protection systems .....		[10,000]
		Program increase—flexible biosensors .....		[5,000]
005	0602201F	AEROSPACE VEHICLE TECHNOLOGIES .....	147,724	147,724
006	0602202F	HUMAN EFFECTIVENESS APPLIED RESEARCH .....	131,795	131,795
007	0602203F	AEROSPACE PROPULSION .....	198,775	213,775
		Educational partnership agreements for aerospace propulsion .....		[10,000]
		Electrical power/thermal management systems .....		[5,000]
008	0602204F	AEROSPACE SENSORS .....	202,912	202,912
010	0602298F	SCIENCE AND TECHNOLOGY MANAGEMENT— MAJOR HEAD-QUARTERS ACTIVITIES .....	7,968	7,968
012	0602602F	CONVENTIONAL MUNITIONS .....	142,772	142,772
013	0602605F	DIRECTED ENERGY TECHNOLOGY .....	124,379	124,379
014	0602788F	DOMINANT INFORMATION SCIENCES AND METHODS .....	181,562	186,562
		Detection and countering of adversarial UAS .....		[5,000]
015	0602890F	HIGH ENERGY LASER RESEARCH .....	44,221	44,221
016	1206601F	SPACE TECHNOLOGY .....	124,667	124,667
		<b>SUBTOTAL APPLIED RESEARCH</b> .....	<b>1,435,626</b>	<b>1,470,626</b>
		<b>ADVANCED TECHNOLOGY DEVELOPMENT</b>		

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<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
017	0603112F	ADVANCED MATERIALS FOR WEAPON SYSTEMS .....	36,586	41,586
		Metals affordability initiative .....		[5,000]
018	0603199F	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T) .....	16,249	16,249
019	0603203F	ADVANCED AEROSPACE SENSORS .....	38,292	38,292
020	0603211F	AEROSPACE TECHNOLOGY DEV/DEMO .....	102,949	122,949
		High speed vertical lift demonstration .....		[5,000]
		Low cost attritable aircraft technology .....		[15,000]
021	0603216F	AEROSPACE PROPULSION AND POWER TECHNOLOGY .....	113,973	118,973
		Electrical power systems .....		[5,000]
022	0603270F	ELECTRONIC COMBAT TECHNOLOGY .....	48,408	48,408
023	0603401F	ADVANCED SPACECRAFT TECHNOLOGY .....	70,525	70,525
024	0603444F	MAUI SPACE SURVEILLANCE SYSTEM (MSSS) .....	11,878	11,878
025	0603456F	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT .....	37,542	37,542
026	0603601F	CONVENTIONAL WEAPONS TECHNOLOGY .....	225,817	225,817
027	0603605F	ADVANCED WEAPONS TECHNOLOGY .....	37,404	37,404
028	0603680F	MANUFACTURING TECHNOLOGY PROGRAM .....	43,116	59,116
		Aerospace composites manufacturing .....		[10,000]
		Program increase .....		[6,000]
029	0603788F	BATTLESPACE KNOWLEDGE DEVELOPMENT AND DEMONSTRATION .....	56,414	56,414
		<b>SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT ...</b>	<b>839,153</b>	<b>885,153</b>
		<b>ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES</b>		
031	0603260F	INTELLIGENCE ADVANCED DEVELOPMENT .....	5,672	5,672
032	0603742F	COMBAT IDENTIFICATION TECHNOLOGY .....	27,085	27,085
033	0603790F	NATO RESEARCH AND DEVELOPMENT .....	4,955	4,955
034	0603851F	INTERCONTINENTAL BALLISTIC MISSILE—DEM/VAL .....	44,109	44,109
036	0604002F	AIR FORCE WEATHER SERVICES RESEARCH .....	772	772
037	0604004F	ADVANCED ENGINE DEVELOPMENT .....	878,442	849,442
		Unjustified budget growth .....		[-29,000]
038	0604015F	LONG RANGE STRIKE—BOMBER .....	3,003,899	3,003,899
039	0604032F	DIRECTED ENERGY PROTOTYPING .....	10,000	20,000
		High-value airborne asset protection .....		[10,000]
040	0604033F	HYPERSONICS PROTOTYPING .....	576,000	536,000
		Program concurrency .....		[-40,000]
041	0604201F	PNT RESILIENCY, MODS, AND IMPROVEMENTS .....	92,600	124,600
		Program increase .....		[32,000]
042	0604257F	ADVANCED TECHNOLOGY AND SENSORS .....	23,145	23,145
043	0604288F	NATIONAL AIRBORNE OPS CENTER (NAOC) RECAP .....	16,669	16,669
044	0604317F	TECHNOLOGY TRANSFER .....	23,614	23,614
045	0604327F	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS) PROGRAM .....	113,121	113,121
046	0604414F	CYBER RESILIENCY OF WEAPON SYSTEMS-ACS .....	56,325	56,325
047	0604776F	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D .....	28,034	28,034
048	0604858F	TECH TRANSITION PROGRAM .....	128,476	128,476
049	0605230F	GROUND BASED STRATEGIC DETERRENT .....	570,373	489,395
		Program reduction .....		[-103,000]
		Technical adjustment for NC3 .....		[22,022]
050	0207100F	LIGHT ATTACK ARMED RECONNAISSANCE (LAAR) SQUADRONS .....	35,000	35,000
051	0207110F	NEXT GENERATION AIR DOMINANCE .....	1,000,000	500,000
		Cost-risk associated with development profile .....		[-500,000]
052	0207455F	THREE DIMENSIONAL LONG-RANGE RADAR (3DELRR) .....	37,290	37,290
053	0208099F	UNIFIED PLATFORM (UP) .....	10,000	10,000
054	0305236F	COMMON DATA LINK EXECUTIVE AGENT (CDL EA) .....	36,910	36,910
055	0305251F	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT .....	35,000	35,000
056	0305601F	MISSION PARTNER ENVIRONMENTS .....	8,550	8,550
057	0306250F	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT .....	198,864	198,864
058	0306415F	ENABLED CYBER ACTIVITIES .....	16,632	16,632
060	0901410F	CONTRACTING INFORMATION TECHNOLOGY SYSTEM .....	20,830	20,830
061	1203164F	NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE) .....	329,948	329,948
062	1203710F	EO/IR WEATHER SYSTEMS .....	101,222	101,222
063	1206422F	WEATHER SYSTEM FOLLOW-ON .....	225,660	205,660
		Unjustified growth .....		[-20,000]
064	1206425F	SPACE SITUATION AWARENESS SYSTEMS .....	29,776	29,776
065	1206427F	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT) .....	142,045	162,045
		Accelerate Blackjack prototype demonstration and tech maturation .....		[20,000]
067	1206438F	SPACE CONTROL TECHNOLOGY .....	64,231	58,231
		Unjustified growth .....		[-6,000]
068	1206730F	SPACE SECURITY AND DEFENSE PROGRAM .....	56,385	56,385
069	1206760F	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES) .....	105,003	105,003
070	1206761F	PROTECTED TACTICAL SERVICE (PTS) .....	173,694	166,194
		Unjustified growth .....		[-7,500]
071	1206855F	EVOLVED STRATEGIC SATCOM (ESS) .....	172,206	172,206
072	1206857F	SPACE RAPID CAPABILITIES OFFICE .....	33,742	30,742
		Program decrease .....		[-3,000]

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Line	Program Element	Item	FY 2020 Request	House Authorized
<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES.</b>			<b>8,436,279</b>	<b>7,811,801</b>
<b>SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>				
073	0604200F	FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS .....	246,200	200
		Unjustified requirement .....		[-246,000]
074	0604201F	PNT RESILIENCY, MODS, AND IMPROVEMENTS .....	67,782	67,782
075	0604222F	NUCLEAR WEAPONS SUPPORT .....	4,406	4,406
076	0604270F	ELECTRONIC WARFARE DEVELOPMENT .....	2,066	2,066
077	0604281F	TACTICAL DATA NETWORKS ENTERPRISE .....	229,631	210,331
		Prior-year carryover .....		[-19,300]
078	0604287F	PHYSICAL SECURITY EQUIPMENT .....	9,700	9,700
079	0604329F	SMALL DIAMETER BOMB (SDB)—EMD .....	31,241	41,241
		Program efficiency initiative .....		[10,000]
080	0604429F	AIRBORNE ELECTRONIC ATTACK .....	2	2
081	0604602F	ARMAMENT/ORDNANCE DEVELOPMENT .....	28,043	22,543
		Unjustified requirement (JAGM-F) .....		[-5,500]
082	0604604F	SUBUNITIONS .....	3,045	3,045
083	0604617F	AGILE COMBAT SUPPORT .....	19,944	19,944
084	0604706F	LIFE SUPPORT SYSTEMS .....	8,624	16,624
		Next-gen ejection seat qualification .....		[8,000]
085	0604735F	COMBAT TRAINING RANGES .....	37,365	37,365
086	0604800F	F-35—EMD .....	7,628	7,628
087	0604932F	LONG RANGE STANDOFF WEAPON .....	712,539	712,539
088	0604933F	ICBM FUZE MODERNIZATION .....	161,199	161,199
089	0605030F	JOINT TACTICAL NETWORK CENTER (JTNC) .....	2,414	2,414
091	0605056F	OPEN ARCHITECTURE MANAGEMENT .....	30,000	30,000
093	0605221F	KC-46 .....	59,561	59,561
094	0605223F	ADVANCED PILOT TRAINING .....	348,473	348,473
095	0605229F	COMBAT RESCUE HELICOPTER .....	247,047	246,047
		Support cost growth .....		[-1,000]
098	0605931F	B-2 DEFENSIVE MANAGEMENT SYSTEM .....	294,400	294,400
099	0101125F	NUCLEAR WEAPONS MODERNIZATION .....	27,564	27,564
101	0207171F	F-15 EPAWSS .....	47,322	47,322
102	0207328F	STAND IN ATTACK WEAPON .....	162,840	127,840
		Unjustified program growth .....		[-35,000]
103	0207701F	FULL COMBAT MISSION TRAINING .....	9,797	9,797
106	0401310F	C-32 EXECUTIVE TRANSPORT RECAPITALIZATION .....	9,930	9,930
107	0401319F	VC-25B .....	757,923	757,923
108	0701212F	AUTOMATED TEST SYSTEMS .....	2,787	2,787
109	1203176F	COMBAT SURVIVOR EVADER LOCATOR .....	2,000	2,000
110	1203269F	GPS III FOLLOW-ON (GPS IIIF) .....	462,875	452,875
		Unjustified growth .....		[-10,000]
111	1203940F	SPACE SITUATION AWARENESS OPERATIONS .....	76,829	56,829
		GBOSS unjustified growth .....		[-20,000]
112	1206421F	COUNTERSPACE SYSTEMS .....	29,037	34,037
		Counterspace communications systems pre-planned product improvement.		[5,000]
113	1206422F	WEATHER SYSTEM FOLLOW-ON .....	2,237	2,237
114	1206425F	SPACE SITUATION AWARENESS SYSTEMS .....	412,894	362,894
		Unexecutable growth .....		[-50,000]
116	1206431F	ADVANCED EHF MILSATCOM (SPACE) .....	117,290	117,290
117	1206432F	POLAR MILSATCOM (SPACE) .....	427,400	427,400
118	1206433F	WIDEBAND GLOBAL SATCOM (SPACE) .....	1,920	1,920
119	1206441F	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD .....	1	1
120	1206442F	NEXT GENERATION OPIR .....	1,395,278	1,018,878
		Unexecutable funding profile .....		[-293,100]
		Unexecutable funding profile (ground) .....		[-83,300]
121	1206445F	COMMERCIAL SATCOM (COMSATCOM) INTEGRATION .....		10,000
		Accelerate integration of COMSATCOM capabilities .....		[10,000]
122	1206853F	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE)—EMD .....	432,009	432,009
<b>SUBTOTAL SYSTEM DEVELOPMENT &amp; DEMONSTRATION.</b>			<b>6,929,243</b>	<b>6,199,043</b>
<b>MANAGEMENT SUPPORT</b>				
123	0604256F	THREAT SIMULATOR DEVELOPMENT .....	59,693	59,693
124	0604759F	MAJOR T&E INVESTMENT .....	181,663	183,663
		Telemetry extension SATCOM relay .....		[2,000]
125	0605101F	RAND PROJECT AIR FORCE .....	35,258	35,258
127	0605712F	INITIAL OPERATIONAL TEST & EVALUATION .....	13,793	13,793
128	0605807F	TEST AND EVALUATION SUPPORT .....	717,895	743,395
		Overwater range telemetry improvements .....		[25,500]
129	0605826F	ACQ WORKFORCE- GLOBAL POWER .....	258,667	258,667
130	0605827F	ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS .....	251,992	251,992
131	0605828F	ACQ WORKFORCE- GLOBAL REACH .....	149,191	149,191
132	0605829F	ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS .....	235,360	235,360
133	0605830F	ACQ WORKFORCE- GLOBAL BATTLE MGMT .....	160,196	160,196
134	0605831F	ACQ WORKFORCE- CAPABILITY INTEGRATION .....	220,255	220,255

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135	0605832F	ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY .....	42,392	42,392
136	0605833F	ACQ WORKFORCE- NUCLEAR SYSTEMS .....	133,231	133,231
137	0605898F	MANAGEMENT HQ—R&D .....	5,590	5,590
138	0605976F	FACILITIES RESTORATION AND MODERNIZATION—TEST AND EVALUATION SUPPORT .....	88,445	88,445
139	0605978F	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT .....	29,424	29,424
140	0606017F	REQUIREMENTS ANALYSIS AND MATURATION .....	62,715	62,715
141	0606398F	MANAGEMENT HQ—T&E .....	5,013	5,013
142	0308602F	ENTERPRISE INFORMATION SERVICES (EIS) .....	17,128	17,128
143	0702806F	ACQUISITION AND MANAGEMENT SUPPORT .....	5,913	5,913
144	0804731F	GENERAL SKILL TRAINING .....	1,475	1,475
146	1001004F	INTERNATIONAL ACTIVITIES .....	4,071	4,071
147	1206116F	SPACE TEST AND TRAINING RANGE DEVELOPMENT .....	19,942	14,942
		Unjustified growth .....		[-5,000]
148	1206392F	SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE .....	167,810	167,810
149	1206398F	SPACE & MISSILE SYSTEMS CENTER—MHA .....	10,170	10,170
150	1206860F	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE) .....	13,192	23,192
		Small rockets launch services .....		[10,000]
151	1206864F	SPACE TEST PROGRAM (STP) .....	26,097	29,097
		Small launch .....		[3,000]
		<b>SUBTOTAL MANAGEMENT SUPPORT .....</b>	<b>2,916,571</b>	<b>2,952,071</b>
		<b>OPERATIONAL SYSTEMS DEVELOPMENT</b>		
152	0604003F	ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS) .....	35,611	20,011
		Program increase—sensor fusion and artificial intelligence technology .....		[10,000]
		Unjustified request .....		[-25,600]
154	0604233F	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING .....	2,584	2,584
155	0604445F	WIDE AREA SURVEILLANCE .....	0	20,000
		Program increase .....		[20,000]
156	0604776F	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D .....	903	903
157	0604840F	F-35 C2D2 .....	694,455	694,455
158	0605018F	AF INTEGRATED PERSONNEL AND PAY SYSTEM (AF-IPPS) .....	40,567	40,567
159	0605024F	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY .....	47,193	47,193
160	0605117F	FOREIGN MATERIEL ACQUISITION AND EXPLOITATION .....	70,083	70,083
161	0605278F	HC/MC-130 RECAP RDT&E .....	17,218	17,218
162	0606018F	NC3 INTEGRATION .....	25,917	25,917
164	0101113F	B-52 SQUADRONS .....	325,974	325,974
165	0101122F	AIR-LAUNCHED CRUISE MISSILE (ALCM) .....	10,217	10,217
166	0101126F	B-1B SQUADRONS .....	1,000	1,000
167	0101127F	B-2 SQUADRONS .....	97,276	97,276
168	0101213F	MINUTEMAN SQUADRONS .....	128,961	106,939
		Technical adjustment for NC3 .....		[-22,022]
170	0101316F	WORLDWIDE JOINT STRATEGIC COMMUNICATIONS .....	18,177	18,177
171	0101324F	INTEGRATED STRATEGIC PLANNING & ANALYSIS NETWORK .....	24,261	24,261
172	0101328F	ICBM REENTRY VEHICLES .....	75,571	75,571
174	0102110F	UH-1N REPLACEMENT PROGRAM .....	170,975	170,975
176	0205219F	MQ-9 UAV .....	154,996	154,996
178	0207131F	A-10 SQUADRONS .....	36,816	36,816
179	0207133F	F-16 SQUADRONS .....	193,013	193,013
180	0207134F	F-15E SQUADRONS .....	336,079	317,779
		Unjustified F-15C requirements .....		[-18,300]
181	0207136F	MANNED DESTRUCTIVE SUPPRESSION .....	15,521	15,521
182	0207138F	F-22A SQUADRONS .....	496,298	442,498
		Excess to requirements .....		[-23,800]
		Prior-year carryover .....		[-30,000]
183	0207142F	F-35 SQUADRONS .....	99,943	99,943
184	0207161F	TACTICAL AIM MISSILES .....	10,314	10,314
185	0207163F	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM) .....	55,384	55,384
186	0207227F	COMBAT RESCUE—PARARESCUE .....	281	281
187	0207247F	AF TENCAP .....	21,365	21,365
188	0207249F	PRECISION ATTACK SYSTEMS PROCUREMENT .....	10,696	10,696
189	0207253F	COMPASS CALL .....	15,888	15,888
190	0207268F	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM .....	112,505	107,505
		Prior-year carryover (F-35) .....		[-5,000]
191	0207325F	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM) .....	78,498	78,498
192	0207410F	AIR & SPACE OPERATIONS CENTER (AOC) .....	114,864	104,864
		Unjustified request .....		[-10,000]
193	0207412F	CONTROL AND REPORTING CENTER (CRC) .....	8,109	8,109
194	0207417F	AIRBORNE WARNING AND CONTROL SYSTEM (AWACS) .....	67,996	61,209
		Excess to need .....		[-6,787]
195	0207418F	TACTICAL AIRBORNE CONTROL SYSTEMS .....	2,462	2,462
197	0207431F	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES .....	13,668	13,668
198	0207444F	TACTICAL AIR CONTROL PARTY-MOD .....	6,217	6,217
200	0207452F	DCAPES .....	19,910	19,910
201	0207573F	NATIONAL TECHNICAL NUCLEAR FORENSICS .....	1,788	1,788
202	0207590F	SEEK EAGLE .....	28,237	28,237
203	0207601F	USAF MODELING AND SIMULATION .....	15,725	15,725
204	0207605F	WARGAMING AND SIMULATION CENTERS .....	4,316	4,316

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205	0207610F	BATTLEFIELD ABN COMM NODE (BACN) .....	26,946	26,946
206	0207697F	DISTRIBUTED TRAINING AND EXERCISES .....	4,303	4,303
207	0208006F	MISSION PLANNING SYSTEMS .....	71,465	71,465
208	0208007F	TACTICAL DECEPTION .....	7,446	7,446
209	0208064F	OPERATIONAL HQ—CYBER .....	7,602	7,602
210	0208087F	DISTRIBUTED CYBER WARFARE OPERATIONS .....	35,178	35,178
211	0208088F	AF DEFENSIVE CYBERSPACE OPERATIONS .....	16,609	16,609
212	0208097F	JOINT CYBER COMMAND AND CONTROL (JCC2) .....	11,603	11,603
213	0208099F	UNIFIED PLATFORM (UP) .....	84,702	84,702
219	0301025F	GEOBASE .....	2,723	2,723
220	0301112F	NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES) .....	44,190	44,190
226	0301401F	AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS.	3,575	3,575
227	0302015F	E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC) .....	70,173	70,173
228	0303131F	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NET- WORK (MEECN).	13,543	28,543
		Advanced concept development—NC3 demonstration and evaluation ...		[15,000]
229	0303133F	HIGH FREQUENCY RADIO SYSTEMS .....	15,881	1,881
		Prior-year carryover .....		[-14,000]
230	0303140F	INFORMATION SYSTEMS SECURITY PROGRAM .....	27,726	27,726
232	0303142F	GLOBAL FORCE MANAGEMENT—DATA INITIATIVE .....	2,210	2,210
234	0304115F	MULTI DOMAIN COMMAND AND CONTROL (MDC2) .....	150,880	100,880
		Unjustified growth .....		[-50,000]
235	0304260F	AIRBORNE SIGINT ENTERPRISE .....	102,667	94,167
		Common development ahead of need .....		[-8,500]
236	0304310F	COMMERCIAL ECONOMIC ANALYSIS .....	3,431	3,431
239	0305015F	C2 AIR OPERATIONS SUITE—C2 INFO SERVICES .....	9,313	9,313
240	0305020F	CCMD INTELLIGENCE INFORMATION TECHNOLOGY .....	1,121	1,121
241	0305022F	ISR MODERNIZATION & AUTOMATION DVMT (IMAD) .....	19,000	3,000
		Unjustified request .....		[-16,000]
242	0305099F	GLOBAL AIR TRAFFIC MANAGEMENT (GATM) .....	4,544	4,544
243	0305111F	WEATHER SERVICE .....	25,461	27,461
		Commercial weather data pilot .....		[2,000]
244	0305114F	AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM (ATCAL8).	5,651	5,651
245	0305116F	AERIAL TARGETS .....	7,448	7,448
248	0305128F	SECURITY AND INVESTIGATIVE ACTIVITIES .....	425	425
249	0305145F	ARMS CONTROL IMPLEMENTATION .....	54,546	54,546
250	0305146F	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES .....	6,858	6,858
252	0305179F	INTEGRATED BROADCAST SERVICE (IBS) .....	8,728	8,728
253	0305202F	DRAGON U-2 .....	38,939	38,939
255	0305206F	AIRBORNE RECONNAISSANCE SYSTEMS .....	132,909	132,909
		Program increase for Goryon Stare sensor enhancements .....		[10,000]
256	0305207F	MANNED RECONNAISSANCE SYSTEMS .....	11,787	11,787
257	0305208F	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS .....	25,009	25,009
258	0305220F	RQ-4 UAV .....	191,733	173,883
		Unjustified request .....		[-17,850]
259	0305221F	NETWORK-CENTRIC COLLABORATIVE TARGETING .....	10,757	10,757
260	0305238F	NATO AGS .....	32,567	32,567
261	0305240F	SUPPORT TO DCGS ENTERPRISE .....	37,774	37,774
262	0305600F	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITEC- TURES.	13,515	13,515
263	0305881F	RAPID CYBER ACQUISITION .....	4,383	4,383
264	0305984F	PERSONNEL RECOVERY COMMAND & CTRL (PRC2) .....	2,133	2,133
265	0307577F	INTELLIGENCE MISSION DATA (IMD) .....	8,614	8,614
266	0401115F	C-130 AIRLIFT SQUADRON .....	140,425	140,425
267	0401119F	C-5 AIRLIFT SQUADRONS (IF) .....	10,223	10,223
268	0401130F	C-17 AIRCRAFT (IF) .....	25,101	25,101
269	0401132F	C-130J PROGRAM .....	8,640	8,640
270	0401134F	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM) .....	5,424	5,424
272	0401219F	KC-108 .....	20	20
274	0401318F	CV-22 .....	17,906	17,906
276	0408011F	SPECIAL TACTICS / COMBAT CONTROL .....	3,629	3,629
277	0702207F	DEPOT MAINTENANCE (NON-IF) .....	1,890	1,890
278	0708055F	MAINTENANCE, REPAIR & OVERHAUL SYSTEM .....	10,311	10,311
279	0708610F	LOGISTICS INFORMATION TECHNOLOGY (LOGIT) .....	16,065	16,065
280	0708611F	SUPPORT SYSTEMS DEVELOPMENT .....	539	539
281	0804743F	OTHER FLIGHT TRAINING .....	2,057	2,057
282	0808716F	OTHER PERSONNEL ACTIVITIES .....	10	10
283	0901202F	JOINT PERSONNEL RECOVERY AGENCY .....	2,060	2,060
284	0901218F	CIVILIAN COMPENSATION PROGRAM .....	3,809	3,809
285	0901220F	PERSONNEL ADMINISTRATION .....	6,476	6,476
286	0901226F	AIR FORCE STUDIES AND ANALYSIS AGENCY .....	1,443	1,443
287	0901538F	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOP- MENT.	9,323	9,323
288	0901554F	DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS) .....	46,789	46,789
289	1201017F	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN) .....	3,647	3,647
290	1201921F	SERVICE SUPPORT TO STRATCOM—SPACE ACTIVITIES .....	988	988

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291	1202140F	SERVICE SUPPORT TO SPACECOM ACTIVITIES .....	11,863	11,863
293	1203001F	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T) .....	197,388	192,388
		Unjustified growth .....		[-5,000]
294	1203110F	SATELLITE CONTROL NETWORK (SPACE) .....	61,891	54,291
		Underexecution of funds and unjustified growth .....		[-7,600]
297	1203173F	SPACE AND MISSILE TEST AND EVALUATION CENTER .....	4,566	4,566
298	1203174F	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT.	43,292	43,292
300	1203182F	SPACELIFT RANGE SYSTEM (SPACE) .....	10,837	10,837
301	1203265F	GPS III SPACE SEGMENT .....	42,440	42,440
302	1203400F	SPACE SUPERIORITY INTELLIGENCE .....	14,428	14,428
303	1203614F	JSPOC MISSION SYSTEM .....	72,762	51,262
		Unjustified growth .....		[-21,500]
304	1203620F	NATIONAL SPACE DEFENSE CENTER .....	2,653	2,653
306	1203873F	BALLISTIC MISSILE DEFENSE RADARS .....	15,881	15,881
308	1203913F	NUDET DETECTION SYSTEM (SPACE) .....	49,300	49,300
309	1203940F	SPACE SITUATION AWARENESS OPERATIONS .....	17,834	17,834
310	1206423F	GLOBAL POSITIONING SYSTEM III—OPERATIONAL CONTROL SEGMENT.	445,302	445,302
311	1206770F	ENTERPRISE GROUND SERVICES .....	138,870	128,670
		Unjustified growth .....		[-10,200]
311A	9999999999	CLASSIFIED PROGRAMS .....	18,351,506	17,998,506
		Classified reduction .....		[-353,000]
		<b>SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT .....</b>	<b>24,851,488</b>	<b>24,263,329</b>
		<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, AF ....</b>	<b>45,938,121</b>	<b>44,111,784</b>
		<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, DW</b>		
		<b>BASIC RESEARCH</b>		
001	0601000BR	DTRA BASIC RESEARCH .....	26,000	26,000
002	0601101E	DEFENSE RESEARCH SCIENCES .....	432,284	432,284
003	0601110D8SZ	BASIC RESEARCH INITIATIVES .....	48,874	58,874
		Program increase .....		[10,000]
004	0601117E	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE .....	54,122	54,122
005	0601120D8SZ	NATIONAL DEFENSE EDUCATION PROGRAM .....	92,074	112,074
		Civics education grant program .....		[20,000]
006	0601228D8SZ	HISTORICALLY BLACK COLLEGES AND UNIVERSITIES/MINORITY INSTITUTIONS.	30,708	30,708
		Program decrease .....		[-5,000]
		Program increase .....		[25,000]
007	0601384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM .....	45,238	45,238
		<b>SUBTOTAL BASIC RESEARCH .....</b>	<b>729,300</b>	<b>779,300</b>
		<b>APPLIED RESEARCH</b>		
008	0602000D8SZ	JOINT MUNITIONS TECHNOLOGY .....	19,306	19,306
009	0602115E	BIOMEDICAL TECHNOLOGY .....	97,771	97,771
011	0602234D8SZ	LINCOLN LABORATORY RESEARCH PROGRAM .....	52,317	52,317
012	0602251D8SZ	APPLIED RESEARCH FOR THE ADVANCEMENT OF S&T PRIORITIES.	62,200	62,200
013	0602303E	INFORMATION & COMMUNICATIONS TECHNOLOGY .....	442,556	442,556
014	0602383E	BIOLOGICAL WARFARE DEFENSE .....	34,588	34,588
015	0602384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM .....	202,587	215,087
		Program increase .....		[12,500]
016	0602668D8SZ	CYBER SECURITY RESEARCH .....	15,118	15,118
017	0602702E	TACTICAL TECHNOLOGY .....	337,602	337,602
018	0602715E	MATERIALS AND BIOLOGICAL TECHNOLOGY .....	223,976	223,976
019	0602716E	ELECTRONICS TECHNOLOGY .....	332,192	332,192
020	0602718BR	COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH.	179,096	179,096
021	0602751D8SZ	SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH.	9,580	9,580
022	1160401BB	SOF TECHNOLOGY DEVELOPMENT .....	40,569	40,569
		<b>SUBTOTAL APPLIED RESEARCH .....</b>	<b>2,049,458</b>	<b>2,061,958</b>
		<b>ADVANCED TECHNOLOGY DEVELOPMENT</b>		
023	0603000D8SZ	JOINT MUNITIONS ADVANCED TECHNOLOGY .....	25,779	25,779
024	0603121D8SZ	SO/LIC ADVANCED DEVELOPMENT .....	5,000	5,000
025	0603122D8SZ	COMBATING TERRORISM TECHNOLOGY SUPPORT .....	70,517	79,517
		Counterterrorism detection technologies .....		[3,000]
		Study of Terrorism and Responses to Terrorism (START) .....		[6,000]
026	0603133D8SZ	FOREIGN COMPARATIVE TESTING .....	24,970	24,970
028	0603160BR	COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT.	340,065	340,065
029	0603176C	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT .....	14,208	14,208
030	0603178C	WEAPONS TECHNOLOGY .....	10,000	10,000
031	0603180C	ADVANCED RESEARCH .....	20,674	27,674
		Advanced carbon-carbon composites manufacturing .....		[7,000]
032	0603225D8SZ	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT .....	18,773	18,773

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033	0603286E	ADVANCED AEROSPACE SYSTEMS .....	279,741	279,741
034	0603287E	SPACE PROGRAMS AND TECHNOLOGY .....	202,606	202,606
035	0603288D8Z	ANALYTIC ASSESSMENTS .....	19,429	19,429
036	0603289D8Z	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS .....	37,645	37,645
037	0603291D8Z	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS—MHA .....	14,668	14,668
038	0603294C	COMMON KILL VEHICLE TECHNOLOGY .....	13,600	13,600
040	0603342D8Z	DEFENSE INNOVATION UNIT (DIU) .....	29,398	29,398
041	0603375D8Z	TECHNOLOGY INNOVATION .....	60,000	44,000
		Program decrease .....		[-16,000]
042	0603384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEVELOPMENT .....	172,486	172,486
043	0603527D8Z	RETRACT LARCH .....	159,688	159,688
044	0603618D8Z	JOINT ELECTRONIC ADVANCED TECHNOLOGY .....	12,063	17,063
		Joint electromagnetic spectrum operations .....		[5,000]
045	0603648D8Z	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS .....	107,359	107,359
046	0603662D8Z	NETWORKED COMMUNICATIONS CAPABILITIES .....	2,858	2,858
047	0603680D8Z	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM .....	96,397	116,397
		Additive manufacturing .....		[10,000]
		Integrated silicon based lasers .....		[5,000]
		Program increase .....		[5,000]
048	0603680S	MANUFACTURING TECHNOLOGY PROGRAM .....	42,834	42,834
049	0603699D8Z	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT .....	80,911	80,911
050	0603712S	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS .....	10,817	10,817
051	0603716D8Z	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM .....	66,157	66,157
052	0603720S	MICROELECTRONICS TECHNOLOGY DEVELOPMENT AND SUPPORT .....	171,771	171,771
053	0603727D8Z	JOINT WARFIGHTING PROGRAM .....	4,846	4,846
054	0603739E	ADVANCED ELECTRONICS TECHNOLOGIES .....	128,616	128,616
055	0603760E	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS .....	232,134	232,134
056	0603766E	NETWORK-CENTRIC WARFARE TECHNOLOGY .....	512,424	512,424
057	0603767E	SENSOR TECHNOLOGY .....	163,903	163,903
058	0603769D8Z	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT .....	13,723	13,723
059	0603781D8Z	SOFTWARE ENGINEERING INSTITUTE .....	15,111	15,111
060	0603826D8Z	QUICK REACTION SPECIAL PROJECTS .....	47,147	47,147
061	0603833D8Z	ENGINEERING SCIENCE & TECHNOLOGY .....	19,376	19,376
062	0603924D8Z	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM .....	85,223	85,223
063	0603941D8Z	TEST & EVALUATION SCIENCE & TECHNOLOGY .....	173,574	180,574
		UAV hypersonic test range .....		[5,000]
064	0603950D8Z	NATIONAL SECURITY INNOVATION NETWORK .....	25,000	30,000
		Hacking for defense .....		[5,000]
065	0604055D8Z	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT .....	70,536	70,536
066	0303310D8Z	CWMD SYSTEMS .....	28,907	28,907
068	1160402BB	SOP ADVANCED TECHNOLOGY DEVELOPMENT .....	89,154	89,154
069	12063108DA	SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT .....	20,000	41,500
		Program increase for commercial SSA; funds transferred from JSPOC Mission System .....		[21,500]
		<b>SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT ...</b>	<b>3,742,088</b>	<b>3,798,588</b>
		<b>ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES</b>		
070	0603161D8Z	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT RDT&E ADC&P .....	42,695	42,695
071	0603600D8Z	WALKOFF .....	92,791	92,791
072	0603821D8Z	ACQUISITION ENTERPRISE DATA & INFORMATION SERVICES .....	5,659	5,659
073	0603851D8Z	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM .....	66,572	66,572
074	0603881C	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT .....	302,761	302,761
075	0603882C	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT .....	1,156,506	960,506
		GBSD booster engineering .....		[-15,000]
		Unjustified program growth .....		[-181,000]
076	0603884BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—DEM/VAL .....	83,662	83,662
077	0603884C	BALLISTIC MISSILE DEFENSE SENSORS .....	283,487	283,487
078	0603890C	BMD ENABLING PROGRAMS .....	571,507	570,476
		Rescope FTM-44—Conduct IRBM test .....		[-1,031]
079	0603891C	SPECIAL PROGRAMS—MDA .....	377,098	504,098
		Classified reduction .....		[-8,000]
		Classified unfunded priority .....		[135,000]
080	0603892C	AEGIS BMD .....	727,479	702,479
		Unjustified cost growth .....		[-25,000]
081	0603896C	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT AND COMMUNICATIONS .....	564,206	561,706
		IBCS integration delays .....		[-1,500]
		Rescope FTM-44—Conduct IRBM test .....		[-1,000]
082	0603898C	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT .....	51,532	51,532
083	0603904C	MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER (MDIOC) .....	56,161	56,161

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084	0603906C	REGARDING TRENCH .....	22,424	22,424
085	0603907C	SEA BASED X-BAND RADAR (SBX) .....	128,156	128,156
086	0603913C	ISRAELI COOPERATIVE PROGRAMS .....	300,000	300,000
087	0603914C	BALLISTIC MISSILE DEFENSE TEST .....	395,924	393,356
		Rescope FTM-44—Conduct IRBM test .....		[-2,568]
088	0603915C	BALLISTIC MISSILE DEFENSE TARGETS .....	554,171	554,171
089	0603920D8Z	HUMANITARIAN DEMINING .....	10,820	15,820
		Program increase .....		[5,000]
090	0603923D8Z	COALITION WARFARE .....	11,316	11,316
091	0604016D8Z	DEPARTMENT OF DEFENSE CORROSION PROGRAM .....	3,365	3,365
092	0604115C	TECHNOLOGY MATURATION INITIATIVES .....	303,458	301,122
		Cancel Neutral Particle Beam .....		[-34,000]
		Increase to low power laser demonstrator .....		[35,000]
		Rescope FTM-44—Conduct IRBM test .....		[-3,336]
093	0604132D8Z	MISSILE DEFEAT PROJECT .....	17,816	7,816
		Lack of justification—program transitioned to military services .....		[-10,000]
095	0604181C	HYPERSONIC DEFENSE .....	157,425	157,425
096	0604250D8Z	ADVANCED INNOVATIVE TECHNOLOGIES .....	1,312,735	1,104,585
		Program decrease .....		[-58,150]
		Realign to 0604011D8Z, Next Generation Information Technology .....		[-50,000]
		Undistributed .....		[-100,000]
097	0604294D8Z	TRUSTED & ASSURED MICROELECTRONICS .....	542,421	542,421
098	0604331D8Z	RAPID PROTOTYPING PROGRAM .....	100,957	100,957
099	0604341D8Z	DEFENSE INNOVATION UNIT (DIU) PROTOTYPING .....	92,000	17,000
		Insufficient budget justification for national security innovation capital .....		[-75,000]
100	0604400D8Z	DEPARTMENT OF DEFENSE (DOD) UNMANNED SYSTEM COMMON DEVELOPMENT .....	3,021	3,021
102	0604672C	HOMELAND DEFENSE RADAR—HAWAII (HDR-H) .....	274,714	274,714
103	0604673C	PACIFIC DISCRIMINATING RADAR .....	6,711	6,711
104	0604682D8Z	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA) .....	3,751	3,751
105	0604775BR	DEFENSE RAPID INNOVATION PROGRAM .....	14,021	14,021
107	0604826J	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY ASSESSMENTS .....	20,062	20,062
108	0604873C	LONG RANGE DISCRIMINATION RADAR (LRDR) .....	136,423	136,423
109	0604874C	IMPROVED HOMELAND DEFENSE INTERCEPTORS .....	412,363	262,363
		Program delays .....		[-150,000]
110	0604876C	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT TEST .....	25,137	25,137
111	0604878C	AEGIS BMD TEST .....	169,822	148,740
		Rescope FTM-44—Conduct IRBM test .....		[-21,082]
112	0604879C	BALLISTIC MISSILE DEFENSE SENSOR TEST .....	105,530	94,566
		Rescope FTM-44—Conduct IRBM test .....		[-10,964]
113	0604880C	LAND-BASED SM-3 (LBSM3) .....	38,352	38,352
115	0604887C	BALLISTIC MISSILE DEFENSE MDCOURSE SEGMENT TEST .....	98,139	96,446
		Rescope FTM-44—Conduct IRBM test .....		[-1,693]
117	0300206R	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS .....	1,600	1,600
118	0303191D8Z	JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM .....	3,191	3,191
119	0305103C	CYBER SECURITY INITIATIVE .....	1,138	1,138
120	1206410SDA	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING .....	85,000	75,000
		Increase to SDA for multi-GNSS receiver capability development .....		[20,000]
		Space-based discrimination study .....		[-15,000]
		Space-based interceptor study .....		[-15,000]
121	1206893C	SPACE TRACKING & SURVEILLANCE SYSTEM .....	35,849	35,849
122	1206895C	BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS .....	27,565	135,565
		Hypersonic and Ballistic Tracking Space Sensor .....		[108,000]
122A	0604011D8Z	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G) .....		175,000
		Program increase .....		[175,000]
		<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES</b>	<b>9,797,493</b>	<b>9,496,169</b>
		<b>SYSTEM DEVELOPMENT AND DEMONSTRATION</b>		
123	0604161D8Z	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT RDT&E SDD .....	11,276	11,276
124	0604165D8Z	PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT .....	107,000	0
		Lack of justification—awaiting policy .....		[-76,000]
		Transfer to RDTE, Army Line 100 .....		[-31,000]
125	0604384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—EMD .....	384,047	384,047
126	0604771D8Z	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS) .....	40,102	43,102
		Cyber maturity model certification program .....		[3,000]
127	0605000BR	COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT .....	13,100	13,100
128	0605013BL	INFORMATION TECHNOLOGY DEVELOPMENT .....	3,070	3,070
129	0605021SE	HOMELAND PERSONNEL SECURITY INITIATIVE .....	7,295	7,295
130	0605022D8Z	DEFENSE EXPORTABILITY PROGRAM .....	17,615	7,615
		Unjustified growth .....		[-10,000]
131	0605027D8Z	OUS(D) IT DEVELOPMENT INITIATIVES .....	15,653	15,653

**SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**  
(In Thousands of Dollars)

<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
132	0605070S	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION.	2,378	2,378
133	0605075D8Z	CMO POLICY AND INTEGRATION .....	1,618	1,618
134	0605080S	DEFENSE AGENCY INITIATIVES (DAI)—FINANCIAL SYSTEM .....	27,944	27,944
135	0605090S	DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS) .....	6,609	6,609
136	0605210D8Z	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES .....	9,619	9,619
137	0605294D8Z	TRUSTED & ASSURED MICROELECTRONICS .....	175,032	175,032
138	0303140BL	INFORMATION SYSTEMS SECURITY PROGRAM .....	425	425
139	0303141K	GLOBAL COMBAT SUPPORT SYSTEM .....	1,578	1,578
140	0305304D8Z	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEM).	4,373	4,373
141	0305310D8Z	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION.	12,854	12,854
		<b>SUBTOTAL SYSTEM DEVELOPMENT AND DEMONSTRATION.</b>	<b>841,588</b>	<b>727,588</b>
		<b>MANAGEMENT SUPPORT</b>		
142	0603829J	JOINT CAPABILITY EXPERIMENTATION .....	13,000	13,000
143	0604774D8Z	DEFENSE READINESS REPORTING SYSTEM (DRRS) .....	9,724	9,724
144	0604875D8Z	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT .....	9,593	9,593
145	0604940D8Z	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT (CTEIP).	260,267	240,267
		<i>Undistributed .....</i>		[−20,000]
146	0604942D8Z	ASSESSMENTS AND EVALUATIONS .....	30,834	30,834
147	0605001E	MISSION SUPPORT .....	68,498	68,498
148	0605100D8Z	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC) .....	83,091	83,091
149	0605104D8Z	TECHNICAL STUDIES, SUPPORT AND ANALYSIS .....	18,079	18,079
150	0605126J	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION (JIAMDO).	70,038	70,038
152	0605142D8Z	SYSTEMS ENGINEERING .....	37,140	37,140
153	0605151D8Z	STUDIES AND ANALYSIS SUPPORT—OSD .....	4,739	4,739
154	0605161D8Z	NUCLEAR MATTERS-PHYSICAL SECURITY .....	8,307	8,307
155	0605170D8Z	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION .....	9,441	9,441
156	0605200D8Z	GENERAL SUPPORT TO USD (INTELLIGENCE) .....	1,700	1,700
157	0605384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM .....	110,363	110,363
166	0605790D8Z	SMALL BUSINESS INNOVATION RESEARCH (SBIR)/ SMALL BUSINESS TECHNOLOGY TRANSFER.	3,568	3,568
167	0605797D8Z	MAINTAINING TECHNOLOGY ADVANTAGE .....	19,936	19,936
168	0605798D8Z	DEFENSE TECHNOLOGY ANALYSIS .....	16,875	19,875
		<i>National Science, Technology, and Security Roundtable with Academia.</i>		[3,000]
169	0605801KA	DEFENSE TECHNICAL INFORMATION CENTER (DTIC) .....	57,716	57,716
170	06058038E	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING AND EVALUATION.	34,448	34,448
171	0605804D8Z	DEVELOPMENT TEST AND EVALUATION .....	22,203	22,203
172	0605898E	MANAGEMENT HQ—R&D .....	13,208	13,208
173	0605998KA	MANAGEMENT HQ—DEFENSE TECHNICAL INFORMATION CENTER (DTIC).	3,027	3,027
174	0606100D8Z	BUDGET AND PROGRAM ASSESSMENTS .....	8,017	8,017
175	0606225D8Z	ODNA TECHNOLOGY AND RESOURCE ANALYSIS .....	3,194	3,194
176	0606589D8W	DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT .....	1,000	1,000
179	0203345D8Z	DEFENSE OPERATIONS SECURITY INITIATIVE (DOSI) .....	3,037	3,037
180	0204571J	JOINT STAFF ANALYTICAL SUPPORT .....	9,216	9,216
183	0303166J	SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES .....	553	553
184	0303260D8Z	DEFENSE MILITARY DECEPTION PROGRAM OFFICE (DMDPO) .....	1,014	1,014
185	0305172K	COMBINED ADVANCED APPLICATIONS .....	58,667	58,667
187	0305245D8Z	INTELLIGENCE CAPABILITIES AND INNOVATION INVESTMENTS	21,081	21,081
189	0307588D8Z	ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS .....	221,235	221,235
191	0804768J	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION (CE2T2)—NON-MHA.	40,073	40,073
192	08087098E	DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI).	100	100
193	0901598C	MANAGEMENT HQ—MDA .....	27,065	27,065
194	0903235K	JOINT SERVICE PROVIDER (JSP) .....	3,090	3,090
194A	9999999999	CLASSIFIED PROGRAMS .....	51,471	51,471
		<b>SUBTOTAL MANAGEMENT SUPPORT</b> .....	<b>1,354,628</b>	<b>1,337,628</b>
		<b>OPERATIONAL SYSTEM DEVELOPMENT</b>		
		<b>UNDISTRIBUTED</b>		
195	0604130V	ENTERPRISE SECURITY SYSTEM (ESS) .....	7,945	7,945
196	0604532K	JOINT ARTIFICIAL INTELLIGENCE .....	208,834	166,834
		<i>Early to need .....</i>		[−42,000]
197	0605127T	REGIONAL INTERNATIONAL OUTREACH (RIO) AND PARTNERSHIP FOR PEACE INFORMATION MANA.	1,947	1,947
198	0605147T	OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SYSTEM (OHASIS).	310	310
199	0607210D8Z	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT .....	10,051	19,051
		<i>Composite manufacturing technology .....</i>		[5,000]

**SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION**  
(In Thousands of Dollars)

<b>Line</b>	<b>Program Element</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
		<i>Lithium ion batteries</i> .....		[4,000]
200	0607310D8Z	CWMD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT .....	12,734	12,734
201	0607327T	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT INFORMATION SYSTEMS (G-TSCMIS).	14,800	14,800
202	0607384BP	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS DEVELOPMENT).	54,023	54,023
203	0208043J	PLANNING AND DECISION AID SYSTEM (PDAS) .....	4,537	4,537
204	0208045K	CAI INTEROPERABILITY .....	64,122	64,122
210	0302019K	DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGRATION.	15,798	15,798
211	0303126K	LONG-HAUL COMMUNICATIONS—DCS .....	11,166	11,166
212	0303131K	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN).	17,383	17,383
214	0303136G	KEY MANAGEMENT INFRASTRUCTURE (KMI) .....	54,516	54,516
215	0303140D8Z	INFORMATION SYSTEMS SECURITY PROGRAM .....	67,631	89,631
		<i>Cyber institutes for senior military colleges</i> .....		[12,000]
		<i>Implementation of Cyber Excepted Service</i> .....		[10,000]
216	0303140G	INFORMATION SYSTEMS SECURITY PROGRAM .....	289,080	287,198
		<i>Redignment to DISA for Sharkseer</i> .....		[-1,882]
217	0303140K	INFORMATION SYSTEMS SECURITY PROGRAM .....	42,796	44,678
		<i>Redignment for Sharkseer</i> .....		[1,882]
218	0303150K	GLOBAL COMMAND AND CONTROL SYSTEM .....	25,218	25,218
219	0303153K	DEFENSE SPECTRUM ORGANIZATION .....	21,698	21,698
220	0303228K	JOINT REGIONAL SECURITY STACKS (JRSS) .....	18,077	18,077
222	0303430K	FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY.	44,001	44,001
228	0305128V	SECURITY AND INVESTIGATIVE ACTIVITIES .....	2,400	2,400
232	0305186D8Z	POLICY R&D PROGRAMS .....	6,301	6,301
233	0305199D8Z	NET CENTRICITY .....	21,384	21,384
235	0305208BB	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS .....	6,359	6,359
238	0305208K	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS .....	2,981	2,981
241	0305327V	INSIDER THREAT .....	1,964	1,964
242	0305387D8Z	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM .....	2,221	2,221
250	0708012K	LOGISTICS SUPPORT ACTIVITIES .....	1,361	1,361
251	0708012S	PACIFIC DISASTER CENTERS .....	1,770	1,770
252	0708047S	DEFENSE PROPERTY ACCOUNTABILITY SYSTEM .....	3,679	3,679
254	1105219BB	MQ-9 UAV .....	20,697	20,697
256	1160403BB	AVIATION SYSTEMS .....	245,795	263,021
		<i>Program increase—Future Vertical Lift</i> .....		[8,800]
		<i>Program increase—RFCM</i> .....		[8,426]
257	1160405BB	INTELLIGENCE SYSTEMS DEVELOPMENT .....	15,484	15,484
258	1160408BB	OPERATIONAL ENHANCEMENTS .....	166,922	166,922
259	1160431BB	WARRIOR SYSTEMS .....	62,332	62,332
260	1160432BB	SPECIAL PROGRAMS .....	21,805	21,805
261	1160434BB	UNMANNED ISR .....	37,377	37,377
262	1160480BB	SOF TACTICAL VEHICLES .....	11,150	11,150
263	1160483BB	MARITIME SYSTEMS .....	72,626	72,626
264	1160489BB	GLOBAL VIDEO SURVEILLANCE ACTIVITIES .....	5,363	5,363
265	1160490BB	OPERATIONAL ENHANCEMENTS INTELLIGENCE .....	12,962	12,962
266	1203610K	TELEPORT PROGRAM .....	6,158	6,158
266A	999999999	CLASSIFIED PROGRAMS .....	4,542,640	4,542,640
		<b>SUBTOTAL OPERATIONAL SYSTEM DEVELOPMENT</b> .....	<b>6,258,398</b>	<b>6,383,624</b>
267A	999999999	UNDISTRIBUTED .....		119,000
		<i>Transfer to NRO for weather satellite procurement to mitigate weather capability gaps risk in 2022–2023.</i>		[119,000]
		<b>SUBTOTAL UNDISTRIBUTED</b> .....		<b>125,226</b>
		<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, DW</b> ..	<b>24,772,953</b>	<b>24,584,855</b>
		<b>OPERATIONAL TEST &amp; EVAL, DEFENSE</b>		
		<b>MANAGEMENT SUPPORT</b>		
001	0605118OTE	OPERATIONAL TEST AND EVALUATION .....	93,291	93,291
002	0605131OTE	LIVE FIRE TEST AND EVALUATION .....	69,172	69,172
003	0605814OTE	OPERATIONAL TEST ACTIVITIES AND ANALYSES .....	58,737	58,737
		<b>SUBTOTAL MANAGEMENT SUPPORT</b> .....	<b>221,200</b>	<b>221,200</b>
		<b>TOTAL OPERATIONAL TEST &amp; EVAL, DEFENSE</b> .....	<b>221,200</b>	<b>221,200</b>
		<b>TOTAL RDT&amp;E</b> .....	<b>103,395,544</b>	<b>100,787,668</b>

1 **SEC. 4202. RESEARCH, DEVELOPMENT, TEST, AND EVALUA-**  
 2 **TION FOR OVERSEAS CONTINGENCY OPER-**  
 3 **ATIONS.**

**SEC. 4202. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION FOR OVERSEAS CONTINGENCY OP-**  
**ERATIONS**  
*(In Thousands of Dollars)*

<i>Line</i>	<i>Program Element</i>	<i>Item</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, ARMY</b>				
<b>ADVANCED COMPONENT DEVELOPMENT &amp; PROTO-</b>				
<b>TYPES</b>				
074	0603327A	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING .....	500	500
079	0603747A	SOLDIER SUPPORT AND SURVIVABILITY .....	3,000	3,000
085	0603804A	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV .....	1,085	1,085
095	0604117A	MANEUVER—SHORT RANGE AIR DEFENSE (M-SHORAD) .....	6,000	0
		Unjustified request .....		[-6,000]
097	0604119A	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING ...	4,529	4,529
105	0604785A	INTEGRATED BASE DEFENSE (BUDGET ACTIVITY 4) .....	2,000	0
		Unjustified request .....		[-2,000]
<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES.</b>			<b>17,114</b>	<b>9,114</b>
<b>SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>				
151	0605035A	COMMON INFRARED COUNTERMEASURES (CIRCM) .....	11,770	11,770
159	0605051A	AIRCRAFT SURVIVABILITY DEVELOPMENT .....	77,420	77,420
163	0605203A	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION .....	19,527	19,527
174	0304270A	ELECTRONIC WARFARE DEVELOPMENT .....	3,200	3,200
<b>SUBTOTAL SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>			<b>111,917</b>	<b>111,917</b>
<b>RDT&amp;E MANAGEMENT SUPPORT</b>				
200	0606003A	COUNTERINTEL AND HUMAN INTEL MODERNIZATION .....	1,875	1,875
<b>SUBTOTAL RDT&amp;E MANAGEMENT SUPPORT</b>			<b>1,875</b>	<b>1,875</b>
<b>OPERATIONAL SYSTEMS DEVELOPMENT</b>				
238	0303028A	SECURITY AND INTELLIGENCE ACTIVITIES .....	22,904	22,904
246	0305204A	TACTICAL UNMANNED AERIAL VEHICLES .....	34,100	34,100
247	0305206A	AIRBORNE RECONNAISSANCE SYSTEMS .....	14,000	14,000
252	0307665A	BIOMETRICS ENABLED INTELLIGENCE .....	2,214	2,214
<b>SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT</b>			<b>73,218</b>	<b>73,218</b>
<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, ARMY</b>			<b>204,124</b>	<b>196,124</b>
<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, NAVY</b>				
<b>ADVANCED COMPONENT DEVELOPMENT &amp; PROTO-</b>				
<b>TYPES</b>				
028	0603207N	AIR/OCEAN TACTICAL APPLICATIONS .....	2,400	2,400
038	0603527N	RETRACT LARCH .....	22,000	22,000
057	0603654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT .....	14,178	14,178
069	0603795N	LAND ATTACK TECHNOLOGY .....	1,428	1,428
<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES.</b>			<b>40,006</b>	<b>40,006</b>
<b>SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>				
143	0604755N	SHIP SELF DEFENSE (DETECT & CONTROL) .....	1,122	1,122
<b>SUBTOTAL SYSTEM DEVELOPMENT &amp; DEMONSTRATION</b>			<b>1,122</b>	<b>1,122</b>
<b>OPERATIONAL SYSTEMS DEVELOPMENT</b>				
228	0206313M	MARINE CORPS COMMUNICATIONS SYSTEMS .....	15,000	15,000
259A	999999999	CLASSIFIED PROGRAMS .....	108,282	108,282
<b>SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT</b>			<b>123,282</b>	<b>123,282</b>
<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, NAVY</b>			<b>164,410</b>	<b>164,410</b>
<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, AF</b>				
<b>ADVANCED COMPONENT DEVELOPMENT &amp; PROTO-</b>				
<b>TYPES</b>				
048	0604858F	TECH TRANSITION PROGRAM .....	26,450	26,450
072	1206857F	SPACE RAPID CAPABILITIES OFFICE .....	17,885	17,885
<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT &amp; PROTOTYPES.</b>			<b>44,335</b>	<b>44,335</b>
<b>OPERATIONAL SYSTEMS DEVELOPMENT</b>				
177	0205671F	JOINT COUNTER RCIED ELECTRONIC WARFARE .....	4,000	4,000
217	0208288F	INTEL DATA APPLICATIONS .....	1,200	1,200
311A	999999999	CLASSIFIED PROGRAMS .....	78,713	78,713
<b>SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT</b>			<b>83,913</b>	<b>83,913</b>

**SEC. 4202. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION FOR OVERSEAS CONTINGENCY OPERATIONS**  
(In Thousands of Dollars)

Line	Program Element	Item	FY 2020 Request	House Authorized
		<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, AF</b> .....	<b>128,248</b>	<b>128,248</b>
		<b>RESEARCH, DEVELOPMENT, TEST &amp; EVAL, DW</b>		
		<b>APPLIED RESEARCH</b>		
010	0602134BR	COUNTER IMPROVISED-THREAT ADVANCED STUDIES .....	1,677	1,677
		<b>SUBTOTAL APPLIED RESEARCH</b> .....	<b>1,677</b>	<b>1,677</b>
		<b>ADVANCED TECHNOLOGY DEVELOPMENT</b>		
025	0603122D8Z	COMBATING TERRORISM TECHNOLOGY SUPPORT .....	25,230	25,230
027	0603134BR	COUNTER IMPROVISED-THREAT SIMULATION .....	49,528	49,528
		<b>SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT</b> .....	<b>74,758</b>	<b>74,758</b>
		<b>ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES</b>		
094	0604134BR	COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING .....	113,590	113,590
		<b>SUBTOTAL ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES</b> .....	<b>113,590</b>	<b>113,590</b>
		<b>OPERATIONAL SYSTEM DEVELOPMENT UNDISTRIBUTED</b>		
258	1160408BB	OPERATIONAL ENHANCEMENTS .....	726	726
259	1160431BB	WARRIOR SYSTEMS .....	6,000	6,000
261	1160434BB	UNMANNED ISR .....	5,000	5,000
266A	999999999	CLASSIFIED PROGRAMS .....	200,199	200,199
		<b>SUBTOTAL OPERATIONAL SYSTEM DEVELOPMENT</b> .....	<b>211,925</b>	<b>211,925</b>
		<b>TOTAL RESEARCH, DEVELOPMENT, TEST &amp; EVAL, DW</b> .....	<b>401,950</b>	<b>401,950</b>
		<b>TOTAL RDT&amp;E</b> .....	<b>898,732</b>	<b>890,732</b>

1 **TITLE XLIII—OPERATION AND**  
2 **MAINTENANCE**  
3 **SEC. 4301. OPERATION AND MAINTENANCE.**

**SEC. 4301. OPERATION AND MAINTENANCE**  
(In Thousands of Dollars)

Line	Item	FY 2020 Request	House Authorized
	<b>OPERATION &amp; MAINTENANCE, ARMY OPERATING FORCES</b>		
010	MANEUVER UNITS .....	1,735,922	1,659,222
	Unjustified growth .....		[-76,700]
020	MODULAR SUPPORT BRIGADES .....	127,815	126,515
	Unjustified growth .....		[-1,300]
030	ECHELONS ABOVE BRIGADE .....	716,356	709,356
	Unjustified growth .....		[-7,000]
040	THEATER LEVEL ASSETS .....	890,891	881,991
	Unjustified growth .....		[-8,900]
050	LAND FORCES OPERATIONS SUPPORT .....	1,232,477	1,230,477
	Unjustified growth .....		[-2,000]
060	AVIATION ASSETS .....	1,355,606	1,282,106
	Excess to need .....		[-73,500]
070	FORCE READINESS OPERATIONS SUPPORT .....	3,882,315	2,659,315
	Excess FTE request .....		[-38,000]
	Female Personal Protective Equipment .....		[2,000]
	Realignment to OCO .....		[-1,100,000]
	Unjustified growth .....		[-12,000]
	Unjustified transfer .....		[-75,000]
080	LAND FORCES SYSTEMS READINESS .....	417,069	417,069
090	LAND FORCES DEPOT MAINTENANCE .....	1,633,327	1,633,327
100	BASE OPERATIONS SUPPORT .....	8,047,933	8,002,933
	Unjustified growth .....		[-45,000]
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION .....	4,326,840	4,051,840
	Unexecutable growth .....		[-275,000]
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS .....	405,612	405,612

**SEC. 4301. OPERATION AND MAINTENANCE**  
(In Thousands of Dollars)

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
160	US AFRICA COMMAND .....	251,511	251,511
170	US EUROPEAN COMMAND .....	146,358	146,358
180	US SOUTHERN COMMAND .....	191,840	218,340
	Multi-Mission Support Vessel .....		[18,000]
	Overland airborne ISR operations .....		[8,500]
190	US FORCES KOREA .....	57,603	57,603
200	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS .....	423,156	423,156
210	CYBERSPACE ACTIVITIES—CYBERSECURITY .....	551,185	551,185
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>26,393,816</b>	<b>24,707,916</b>
	<b>MOBILIZATION</b>		
220	STRATEGIC MOBILITY .....	380,577	380,577
230	ARMY PREPOSITIONED STOCKS .....	362,942	362,942
240	INDUSTRIAL PREPAREDNESS .....	4,637	4,637
	<b>SUBTOTAL MOBILIZATION .....</b>	<b>748,156</b>	<b>748,156</b>
	<b>TRAINING AND RECRUITING</b>		
250	OFFICER ACQUISITION .....	157,175	157,175
260	RECRUIT TRAINING .....	55,739	55,739
270	ONE STATION UNIT TRAINING .....	62,300	62,300
280	SENIOR RESERVE OFFICERS TRAINING CORPS .....	538,357	538,357
290	SPECIALIZED SKILL TRAINING .....	969,813	969,813
300	FLIGHT TRAINING .....	1,234,049	1,209,049
	Changes to AH-64E Program .....		[-25,000]
310	PROFESSIONAL DEVELOPMENT EDUCATION .....	218,338	218,338
320	TRAINING SUPPORT .....	554,659	550,659
	Excess travel request .....		[-4,000]
330	RECRUITING AND ADVERTISING .....	716,056	716,056
340	EXAMINING .....	185,034	185,034
350	OFF-DUTY AND VOLUNTARY EDUCATION .....	214,275	214,275
360	CIVILIAN EDUCATION AND TRAINING .....	147,647	147,647
370	JUNIOR RESERVE OFFICER TRAINING CORPS .....	173,812	173,812
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>5,227,254</b>	<b>5,198,254</b>
	<b>ADMIN &amp; SRVWIDE ACTIVITIES</b>		
390	SERVICEWIDE TRANSPORTATION .....	559,229	559,229
400	CENTRAL SUPPLY ACTIVITIES .....	929,944	927,944
	Excess personnel .....		[-2,000]
410	LOGISTIC SUPPORT ACTIVITIES .....	629,981	629,981
420	AMMUNITION MANAGEMENT .....	458,771	458,771
430	ADMINISTRATION .....	428,768	428,768
440	SERVICEWIDE COMMUNICATIONS .....	1,512,736	1,512,736
450	MANPOWER MANAGEMENT .....	272,738	272,738
460	OTHER PERSONNEL SUPPORT .....	391,869	381,869
	Unjustified growth .....		[-10,000]
470	OTHER SERVICE SUPPORT .....	1,901,165	1,896,080
	Unjustified headquarters growth .....		[-5,085]
480	ARMY CLAIMS ACTIVITIES .....	198,765	198,765
490	REAL ESTATE MANAGEMENT .....	226,248	226,248
500	FINANCIAL MANAGEMENT AND AUDIT READINESS .....	315,489	310,489
	Unjustified growth to General Fund Enterprise Business System .....		[-5,000]
510	INTERNATIONAL MILITARY HEADQUARTERS .....	427,254	427,254
520	MISC. SUPPORT OF OTHER NATIONS .....	43,248	43,248
565	CLASSIFIED PROGRAMS .....	1,347,053	1,347,053
	<b>SUBTOTAL ADMIN &amp; SRVWIDE ACTIVITIES .....</b>	<b>9,643,258</b>	<b>9,621,173</b>
	<b>UNDISTRIBUTED</b>		
570	UNDISTRIBUTED .....		-110,000
	Overestimation of Civilian FTE Targets .....		[-110,000]
	<b>SUBTOTAL UNDISTRIBUTED .....</b>		<b>-110,000</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ARMY .....</b>	<b>42,012,484</b>	<b>40,165,499</b>
	<b>OPERATION &amp; MAINTENANCE, ARMY RES OPERATING FORCES</b>		
010	MODULAR SUPPORT BRIGADES .....	11,927	11,927
020	ECHELONS ABOVE BRIGADE .....	533,015	533,015
030	THEATER LEVEL ASSETS .....	119,517	118,101
	Insufficient justification .....		[-1,416]
040	LAND FORCES OPERATIONS SUPPORT .....	550,468	548,268

**SEC. 4301. OPERATION AND MAINTENANCE**  
(In Thousands of Dollars)

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
	<i>Insufficient justification</i> .....		[-2,200]
050	AVIATION ASSETS .....	86,670	85,170
	<i>Unjustified growth</i> .....		[-1,500]
060	FORCE READINESS OPERATIONS SUPPORT .....	390,061	388,661
	<i>Excess civilian increase</i> .....		[-400]
	<i>Excess travel increase</i> .....		[-1,000]
070	LAND FORCES SYSTEMS READINESS .....	101,890	101,890
080	LAND FORCES DEPOT MAINTENANCE .....	48,503	48,503
090	BASE OPERATIONS SUPPORT .....	598,907	598,907
100	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION .....	444,376	444,376
110	MANAGEMENT AND OPERATIONAL HEADQUARTERS .....	22,095	22,095
120	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS .....	3,288	3,288
130	CYBERSPACE ACTIVITIES—CYBERSECURITY .....	7,655	7,655
	<b>SUBTOTAL OPERATING FORCES</b> .....	<b>2,918,372</b>	<b>2,911,856</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
140	SERVICEWIDE TRANSPORTATION .....	14,533	14,533
150	ADMINISTRATION .....	17,231	17,231
160	SERVICEWIDE COMMUNICATIONS .....	14,304	14,304
170	MANPOWER MANAGEMENT .....	6,129	6,129
180	RECRUITING AND ADVERTISING .....	58,541	58,541
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES</b> .....	<b>110,738</b>	<b>110,738</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ARMY RES</b> ...	<b>3,029,110</b>	<b>3,022,594</b>
	<b>OPERATION &amp; MAINTENANCE, ARNG</b>		
	<b>OPERATING FORCES</b>		
010	MANEUVER UNITS .....	805,671	797,671
	<i>Excess growth</i> .....		[-8,000]
020	MODULAR SUPPORT BRIGADES .....	195,334	193,334
	<i>Excess growth</i> .....		[-2,000]
030	ECHELONS ABOVE BRIGADE .....	771,048	770,548
	<i>Excess growth</i> .....		[-500]
040	THEATER LEVEL ASSETS .....	94,726	91,826
	<i>Excess growth</i> .....		[-2,900]
050	LAND FORCES OPERATIONS SUPPORT .....	33,696	33,696
060	AVIATION ASSETS .....	981,819	973,819
	<i>Insufficient justification</i> .....		[-8,000]
070	FORCE READINESS OPERATIONS SUPPORT .....	743,206	743,206
080	LAND FORCES SYSTEMS READINESS .....	50,963	50,963
090	LAND FORCES DEPOT MAINTENANCE .....	258,278	249,778
	<i>Insufficient justification</i> .....		[-8,500]
100	BASE OPERATIONS SUPPORT .....	1,153,076	1,121,576
	<i>Insufficient justification</i> .....		[-31,500]
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION .....	1,113,475	1,033,475
	<i>Insufficient justification</i> .....		[-80,000]
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS .....	1,001,042	987,042
	<i>Insufficient justification</i> .....		[-14,000]
130	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS .....	8,448	8,448
140	CYBERSPACE ACTIVITIES—CYBERSECURITY .....	7,768	7,768
	<b>SUBTOTAL OPERATING FORCES</b> .....	<b>7,218,550</b>	<b>7,063,150</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
150	SERVICEWIDE TRANSPORTATION .....	9,890	9,890
160	ADMINISTRATION .....	71,070	71,070
170	SERVICEWIDE COMMUNICATIONS .....	68,213	68,213
180	MANPOWER MANAGEMENT .....	8,628	8,628
190	OTHER PERSONNEL SUPPORT .....	250,376	250,376
200	REAL ESTATE MANAGEMENT .....	2,676	2,676
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES</b> .....	<b>410,853</b>	<b>410,853</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ARNG</b> .....	<b>7,629,403</b>	<b>7,474,003</b>
	<b>OPERATION &amp; MAINTENANCE, NAVY</b>		
	<b>OPERATING FORCES</b>		
010	MISSION AND OTHER FLIGHT OPERATIONS .....	5,309,109	5,029,734
	<i>Excess growth</i> .....		[-15,000]
	<i>Projected underexecution</i> .....		[-50,000]

**SEC. 4301. OPERATION AND MAINTENANCE**  
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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
	<i>Realignment to OCO</i> .....		[-214,375]
020	FLEET AIR TRAINING .....	2,284,828	2,234,828
	<i>Projected underexecution</i> .....		[-50,000]
030	AVIATION TECHNICAL DATA & ENGINEERING SERVICES ....	59,299	59,299
040	AIR OPERATIONS AND SAFETY SUPPORT .....	155,896	155,896
050	AIR SYSTEMS SUPPORT .....	719,107	719,107
060	AIRCRAFT DEPOT MAINTENANCE .....	1,154,181	1,154,181
070	AIRCRAFT DEPOT OPERATIONS SUPPORT .....	60,402	59,202
	<i>Excess growth</i> .....		[-1,200]
080	AVIATION LOGISTICS .....	1,241,421	1,219,421
	<i>Projected underexecution</i> .....		[-22,000]
090	MISSION AND OTHER SHIP OPERATIONS .....	4,097,262	3,596,262
	<i>Realignment to OCO</i> .....		[-450,000]
	<i>Unjustified growth</i> .....		[-51,000]
100	SHIP OPERATIONS SUPPORT & TRAINING .....	1,031,792	1,029,792
	<i>Excess civilian growth</i> .....		[-2,000]
110	SHIP DEPOT MAINTENANCE .....	8,061,298	8,895,298
	<i>Surface ship maintenance</i> .....		[161,000]
	USS Boise .....		[310,000]
	USS Columbus .....		[57,000]
	USS Hartford .....		[306,000]
120	SHIP DEPOT OPERATIONS SUPPORT .....	2,073,641	2,066,141
	<i>Insufficient justification</i> .....		[-7,500]
130	COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE ...	1,378,856	1,378,856
140	SPACE SYSTEMS AND SURVEILLANCE .....	276,245	273,745
	<i>Unjustified growth</i> .....		[-2,500]
150	WARFARE TACTICS .....	675,209	675,209
160	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY .....	389,516	389,516
170	COMBAT SUPPORT FORCES .....	1,536,310	1,526,310
	<i>Unjustified growth</i> .....		[-10,000]
180	EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUP- PORT .....	161,579	161,579
190	COMBATANT COMMANDERS CORE OPERATIONS .....	59,521	59,521
200	COMBATANT COMMANDERS DIRECT MISSION SUPPORT .....	93,978	93,978
210	MILITARY INFORMATION SUPPORT OPERATIONS .....	8,641	8,641
220	CYBERSPACE ACTIVITIES .....	496,385	496,385
230	FLEET BALLISTIC MISSILE .....	1,423,339	1,423,339
240	WEAPONS MAINTENANCE .....	924,069	895,032
	<i>Insufficient justification</i> .....		[-29,037]
250	OTHER WEAPON SYSTEMS SUPPORT .....	540,210	540,210
260	ENTERPRISE INFORMATION .....	1,131,627	1,081,627
	<i>Unjustified growth</i> .....		[-50,000]
270	SUSTAINMENT, RESTORATION AND MODERNIZATION .....	3,029,634	2,929,634
	<i>Unexecutable growth</i> .....		[-100,000]
280	BASE OPERATING SUPPORT .....	4,414,943	4,414,943
	<b>SUBTOTAL OPERATING FORCES</b> .....	<b>42,788,298</b>	<b>42,567,686</b>
	<b>MOBILIZATION</b>		
290	SHIP PREPOSITIONING AND SURGE .....	942,902	668,561
	<i>Realignment to NDSF (DoD mobilization alterations)</i> .....		[-9,590]
	<i>Realignment to NDSF (LSMR maintenance)</i> .....		[-264,751]
300	READY RESERVE FORCE .....	352,044	0
	<i>Realignment to NDSF</i> .....		[-352,044]
310	SHIP ACTIVATIONS/INACTIVATIONS .....	427,555	427,555
320	EXPEDITIONARY HEALTH SERVICES SYSTEMS .....	137,597	40,730
	<i>Realignment to NDSF (TAH maintenance)</i> .....		[-96,867]
330	COAST GUARD SUPPORT .....	24,604	24,604
	<b>SUBTOTAL MOBILIZATION</b> .....	<b>1,884,702</b>	<b>1,161,450</b>
	<b>TRAINING AND RECRUITING</b>		
340	OFFICER ACQUISITION .....	150,765	150,765
350	RECRUIT TRAINING .....	11,584	11,584
360	RESERVE OFFICERS TRAINING CORPS .....	159,133	159,133
370	SPECIALIZED SKILL TRAINING .....	911,316	891,316
	<i>Insufficient justification</i> .....		[-20,000]
380	PROFESSIONAL DEVELOPMENT EDUCATION .....	185,211	186,261
	<i>Program Increase: Sea Cadets</i> .....		[1,050]
390	TRAINING SUPPORT .....	267,224	267,224
400	RECRUITING AND ADVERTISING .....	209,252	209,252
410	OFF-DUTY AND VOLUNTARY EDUCATION .....	88,902	88,902

**SEC. 4301. OPERATION AND MAINTENANCE**  
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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
420	CIVILIAN EDUCATION AND TRAINING .....	67,492	67,492
430	JUNIOR ROTC .....	55,164	55,164
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>2,106,043</b>	<b>2,087,093</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
440	ADMINISTRATION .....	1,143,358	1,096,733
	Excess civilian growth .....		[-14,375]
	Insufficient justification—MHA Transfer .....		[-25,500]
	Unjustified growth .....		[-6,750]
450	CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT .....	178,342	175,342
	Excess civilian growth .....		[-3,000]
460	MILITARY MANPOWER AND PERSONNEL MANAGEMENT .....	418,413	418,413
490	SERVICEWIDE TRANSPORTATION .....	157,465	157,465
510	PLANNING, ENGINEERING, AND PROGRAM SUPPORT .....	485,397	485,397
520	ACQUISITION, LOGISTICS, AND OVERSIGHT .....	654,137	654,137
530	INVESTIGATIVE AND SECURITY SERVICES .....	718,061	718,061
645	CLASSIFIED PROGRAMS .....	591,535	591,535
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>4,346,708</b>	<b>4,297,083</b>
	<b>UNDISTRIBUTED</b>		
650	UNDISTRIBUTED .....		-30,000
	Overestimation of Civilian FTE Targets .....		[-30,000]
	<b>SUBTOTAL UNDISTRIBUTED .....</b>		<b>-30,000</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, NAVY .....</b>	<b>51,125,751</b>	<b>50,083,312</b>
	<b>OPERATION &amp; MAINTENANCE, MARINE CORPS</b>		
	<b>OPERATING FORCES</b>		
010	OPERATIONAL FORCES .....	968,224	927,224
	Excess civilian growth .....		[-1,000]
	Unjustified growth .....		[-40,000]
020	FIELD LOGISTICS .....	1,278,533	1,269,533
	Excess civilian growth .....		[-2,000]
	Unjustified growth .....		[-7,000]
030	DEPOT MAINTENANCE .....	232,991	232,991
040	MARITIME PREPOSITIONING .....	100,396	100,396
050	CYBERSPACE ACTIVITIES .....	203,580	201,580
	Excess civilian growth .....		[-2,000]
060	SUSTAINMENT, RESTORATION & MODERNIZATION .....	1,559,034	1,559,034
070	BASE OPERATING SUPPORT .....	2,253,776	2,213,776
	Excess civilian growth .....		[-6,000]
	Unjustified growth .....		[-34,000]
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>6,596,534</b>	<b>6,504,534</b>
	<b>TRAINING AND RECRUITING</b>		
080	RECRUIT TRAINING .....	21,240	21,240
090	OFFICER ACQUISITION .....	1,168	1,168
100	SPECIALIZED SKILL TRAINING .....	106,601	106,601
110	PROFESSIONAL DEVELOPMENT EDUCATION .....	49,095	49,095
120	TRAINING SUPPORT .....	407,315	403,715
	Excess civilian growth .....		[-1,300]
	Unjustified growth .....		[-2,300]
130	RECRUITING AND ADVERTISING .....	210,475	210,475
140	OFF-DUTY AND VOLUNTARY EDUCATION .....	42,810	42,810
150	JUNIOR ROTC .....	25,183	25,183
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>863,887</b>	<b>860,287</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
160	SERVICEWIDE TRANSPORTATION .....	29,894	29,894
170	ADMINISTRATION .....	384,352	383,002
	Excess civilian growth .....		[-750]
	Unjustified growth .....		[-600]
225	CLASSIFIED PROGRAMS .....	52,057	52,057
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>466,303</b>	<b>464,953</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, MARINE CORPS .....</b>	<b>7,926,724</b>	<b>7,829,774</b>
	<b>OPERATION &amp; MAINTENANCE, NAVY RES</b>		
	<b>OPERATING FORCES</b>		

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<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
010	MISSION AND OTHER FLIGHT OPERATIONS .....	654,220	639,220
	Unjustified growth .....		[-15,000]
020	INTERMEDIATE MAINTENANCE .....	8,767	8,767
030	AIRCRAFT DEPOT MAINTENANCE .....	108,236	108,236
040	AIRCRAFT DEPOT OPERATIONS SUPPORT .....	463	463
050	AVIATION LOGISTICS .....	26,014	26,014
060	SHIP OPERATIONS SUPPORT & TRAINING .....	583	583
070	COMBAT COMMUNICATIONS .....	17,883	17,883
080	COMBAT SUPPORT FORCES .....	128,079	128,079
090	CYBERSPACE ACTIVITIES .....	356	356
100	ENTERPRISE INFORMATION .....	26,133	26,133
110	SUSTAINMENT, RESTORATION AND MODERNIZATION .....	35,397	35,397
120	BASE OPERATING SUPPORT .....	101,376	101,376
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>1,107,507</b>	<b>1,092,507</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
130	ADMINISTRATION .....	1,888	1,888
140	MILITARY MANPOWER AND PERSONNEL MANAGEMENT .....	12,778	12,778
150	ACQUISITION AND PROGRAM MANAGEMENT .....	2,943	2,943
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>17,609</b>	<b>17,609</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, NAVY RES ...</b>	<b>1,125,116</b>	<b>1,110,116</b>
	<b>OPERATION &amp; MAINTENANCE, MC RESERVE</b>		
	<b>OPERATING FORCES</b>		
010	OPERATING FORCES .....	106,484	106,484
020	DEPOT MAINTENANCE .....	18,429	18,429
030	SUSTAINMENT, RESTORATION AND MODERNIZATION .....	47,516	47,516
040	BASE OPERATING SUPPORT .....	106,073	106,073
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>278,502</b>	<b>278,502</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
050	ADMINISTRATION .....	13,574	13,574
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>13,574</b>	<b>13,574</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, MC RE-SERVE .....</b>	<b>292,076</b>	<b>292,076</b>
	<b>OPERATION &amp; MAINTENANCE, AIR FORCE</b>		
	<b>OPERATING FORCES</b>		
010	PRIMARY COMBAT FORCES .....	729,127	727,477
	Excess travel costs .....		[-1,650]
020	COMBAT ENHANCEMENT FORCES .....	1,318,770	1,318,770
030	AIR OPERATIONS TRAINING (OJT, MAINTAIN SKILLS) .....	1,486,790	1,446,790
	Unjustified growth .....		[-40,000]
040	DEPOT PURCHASE EQUIPMENT MAINTENANCE .....	3,334,792	3,534,792
	Readiness restoration .....		[200,000]
050	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION .....	4,142,435	4,142,435
060	CYBERSPACE SUSTAINMENT .....	228,811	228,811
070	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT .....	8,329,364	8,438,364
	Expansion of Conditions Based Maintenance Plus (CBM+) .....		[18,000]
	Readiness restoration .....		[91,000]
080	FLYING HOUR PROGRAM .....	4,048,773	3,498,773
	Realignment to OCO .....		[-550,000]
090	BASE SUPPORT .....	7,223,982	7,073,982
	Insufficient justification .....		[-150,000]
100	GLOBAL C3I AND EARLY WARNING .....	964,553	964,553
110	OTHER COMBAT OPS SPT PROGRAMS .....	1,032,307	1,026,161
	Unjustified growth .....		[-6,146]
120	CYBERSPACE ACTIVITIES .....	670,076	670,076
140	LAUNCH FACILITIES .....	179,980	179,980
150	SPACE CONTROL SYSTEMS .....	467,990	464,490
	Insufficient justification .....		[-3,500]
160	US NORTHCOM/NORAD .....	184,655	184,655
170	US STRATCOM .....	478,357	478,357
180	US CYBERCOM .....	323,121	323,121
190	US CENTCOM .....	160,989	160,989
200	US SOCOM .....	6,225	6,225
210	US TRANSCOM .....	544	544

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(In Thousands of Dollars)

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
220	CENTCOM CYBERSPACE SUSTAINMENT .....	2,073	2,073
230	USSPACECOM .....	70,588	70,588
235	CLASSIFIED PROGRAMS .....	1,322,944	1,322,944
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>36,707,246</b>	<b>36,264,950</b>
	<b>MOBILIZATION</b>		
240	AIRLIFT OPERATIONS .....	1,158,142	1,151,342
	Unjustified growth .....		[-6,800]
250	MOBILIZATION PREPAREDNESS .....	138,672	130,172
	Unjustified growth .....		[-8,500]
	<b>SUBTOTAL MOBILIZATION .....</b>	<b>1,296,814</b>	<b>1,281,514</b>
	<b>TRAINING AND RECRUITING</b>		
260	OFFICER ACQUISITION .....	130,835	130,835
270	RECRUIT TRAINING .....	26,021	26,021
280	RESERVE OFFICERS TRAINING CORPS (ROTC) .....	121,391	121,391
290	SPECIALIZED SKILL TRAINING .....	454,539	449,539
	Insufficient justification .....		[-5,000]
300	FLIGHT TRAINING .....	600,565	600,565
310	PROFESSIONAL DEVELOPMENT EDUCATION .....	282,788	282,788
320	TRAINING SUPPORT .....	123,988	119,988
	Unjustified growth .....		[-4,000]
330	RECRUITING AND ADVERTISING .....	167,731	167,731
340	EXAMINING .....	4,576	4,576
350	OFF-DUTY AND VOLUNTARY EDUCATION .....	211,911	211,911
360	CIVILIAN EDUCATION AND TRAINING .....	219,021	219,021
370	JUNIOR ROTC .....	62,092	62,092
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>2,405,458</b>	<b>2,396,458</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
380	LOGISTICS OPERATIONS .....	664,926	664,926
390	TECHNICAL SUPPORT ACTIVITIES .....	101,483	101,483
400	ADMINISTRATION .....	892,480	892,480
410	SERVICEWIDE COMMUNICATIONS .....	152,532	152,532
420	OTHER SERVICEWIDE ACTIVITIES .....	1,254,089	1,254,089
430	CIVIL AIR PATROL .....	30,070	37,200
	Improved emergency crew readiness .....		[7,130]
460	INTERNATIONAL SUPPORT .....	136,110	136,110
465	CLASSIFIED PROGRAMS .....	1,269,624	1,269,624
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>4,501,314</b>	<b>4,508,444</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, AIR FORCE ..</b>	<b>44,910,832</b>	<b>44,451,366</b>
	<b>OPERATION &amp; MAINTENANCE, SPACE FORCE</b>		
	<b>OPERATING FORCES</b>		
010	BASE SUPPORT .....	72,436	15,000
	Insufficient justification .....		[-57,436]
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>72,436</b>	<b>15,000</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, SPACE FORCE .....</b>	<b>72,436</b>	<b>15,000</b>
	<b>OPERATION &amp; MAINTENANCE, AF RESERVE</b>		
	<b>OPERATING FORCES</b>		
010	PRIMARY COMBAT FORCES .....	1,781,413	1,739,288
	Delay in KC-46 aircraft delivery .....		[-31,492]
	Excess Growth .....		[-10,633]
020	MISSION SUPPORT OPERATIONS .....	209,650	204,150
	Insufficient justification .....		[-5,500]
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE .....	494,235	484,235
	Excess growth .....		[-10,000]
040	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION .....	128,746	128,746
050	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT .....	256,512	256,512
060	BASE SUPPORT .....	414,626	414,626
070	CYBERSPACE ACTIVITIES .....	1,673	1,673
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>3,286,855</b>	<b>3,229,230</b>
	<b>ADMINISTRATION AND SERVICEWIDE ACTIVITIES</b>		
080	ADMINISTRATION .....	69,436	69,436

**SEC. 4301. OPERATION AND MAINTENANCE**  
**(In Thousands of Dollars)**

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
090	RECRUITING AND ADVERTISING .....	22,124	22,124
100	MILITARY MANPOWER AND PERS MGMT (ARPC) .....	10,946	10,946
110	OTHER PERS SUPPORT (DISABILITY COMP) .....	7,009	7,009
120	AUDIOVISUAL .....	448	448
	<b>SUBTOTAL ADMINISTRATION AND SERVICEWIDE ACTIVITIES .....</b>	<b>109,963</b>	<b>109,963</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, AF RESERVE</b>	<b>3,396,818</b>	<b>3,339,193</b>
	<b>OPERATION &amp; MAINTENANCE, ANG OPERATING FORCES</b>		
010	AIRCRAFT OPERATIONS .....	2,497,967	2,414,000
	Delay in KC-46 aircraft delivery .....		[-5,267]
	Insufficient justification .....		[-78,700]
020	MISSION SUPPORT OPERATIONS .....	600,377	585,377
	Insufficient justification .....		[-15,000]
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE .....	879,467	872,467
	Excess growth .....		[-7,000]
040	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION .....	400,734	395,134
	Insufficient justification .....		[-5,600]
050	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT .....	1,299,089	1,290,089
	Excess growth .....		[-9,000]
060	BASE SUPPORT .....	911,775	901,775
	Insufficient justification .....		[-10,000]
070	CYBERSPACE SUSTAINMENT .....	24,742	24,742
080	CYBERSPACE ACTIVITIES .....	25,507	25,507
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>6,639,658</b>	<b>6,509,091</b>
	<b>ADMINISTRATION AND SERVICE-WIDE ACTIVITIES</b>		
090	ADMINISTRATION .....	47,215	47,215
100	RECRUITING AND ADVERTISING .....	40,356	40,356
	<b>SUBTOTAL ADMINISTRATION AND SERVICE-WIDE ACTIVITIES .....</b>	<b>87,571</b>	<b>87,571</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ANG .....</b>	<b>6,727,229</b>	<b>6,596,662</b>
	<b>OPERATION AND MAINTENANCE, DEFENSE-WIDE OPERATING FORCES</b>		
010	JOINT CHIEFS OF STAFF .....	409,542	409,542
020	JOINT CHIEFS OF STAFF—CE2T2 .....	579,179	579,179
030	JOINT CHIEFS OF STAFF—CYBER .....	24,598	24,598
040	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES .....	1,075,762	1,075,762
050	SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES .....	14,409	14,409
060	SPECIAL OPERATIONS COMMAND INTELLIGENCE .....	501,747	486,747
	Program decrease—SOCRATES .....		[-9,000]
	Unjustified growth—DCGS .....		[-6,000]
070	SPECIAL OPERATIONS COMMAND MAINTENANCE .....	559,300	544,300
	Projected underexecution .....		[-15,000]
080	SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS .....	177,928	177,928
090	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT .....	925,262	899,262
	Base support underexecution .....		[-6,000]
	Operational support underexecution .....		[-10,000]
	Unjustified growth—CALAS Saas .....		[-10,000]
100	SPECIAL OPERATIONS COMMAND THEATER FORCES .....	2,764,738	2,724,738
	Program decrease .....		[-55,000]
	Program increase—suicide prevention .....		[15,000]
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>7,032,465</b>	<b>6,936,465</b>
	<b>TRAINING AND RECRUITING</b>		
120	DEFENSE ACQUISITION UNIVERSITY .....	180,250	180,250
130	JOINT CHIEFS OF STAFF .....	100,610	100,610
140	PROFESSIONAL DEVELOPMENT EDUCATION .....	33,967	33,967
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>314,827</b>	<b>314,827</b>
	<b>ADMIN &amp; SRVWIDE ACTIVITIES</b>		
160	CIVIL MILITARY PROGRAMS .....	165,707	195,707

**SEC. 4301. OPERATION AND MAINTENANCE**  
**(In Thousands of Dollars)**

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
	Program increase—STARBASE .....		[30,000]
180	DEFENSE CONTRACT AUDIT AGENCY .....	627,467	627,467
190	DEFENSE CONTRACT AUDIT AGENCY—CYBER .....	3,362	3,362
200	DEFENSE CONTRACT MANAGEMENT AGENCY .....	1,438,068	1,438,068
210	DEFENSE CONTRACT MANAGEMENT AGENCY—CYBER .....	24,391	24,391
220	DEFENSE HUMAN RESOURCES ACTIVITY .....	892,438	898,438
	Program increase—national flagship language initiative .....		[6,000]
230	DEFENSE INFORMATION SYSTEMS AGENCY .....	2,012,885	2,028,022
	Realignment for Sharkseer .....		[35,137]
	Unjustified growth .....		[-20,000]
240	DEFENSE INFORMATION SYSTEMS AGENCY—CYBER .....	601,223	601,223
270	DEFENSE LEGAL SERVICES AGENCY .....	34,632	34,632
280	DEFENSE LOGISTICS AGENCY .....	415,699	430,199
	Excess growth .....		[-5,000]
	Program increase—PTAP .....		[19,500]
290	DEFENSE MEDIA ACTIVITY .....	202,792	196,792
	Program decrease .....		[-6,000]
300	DEFENSE PERSONNEL ACCOUNTING AGENCY .....	144,881	144,881
310	DEFENSE SECURITY COOPERATION AGENCY .....	696,884	681,884
	Increase for AM&E .....		[11,000]
	Increase for AM&E .....		[-11,000]
	Unjustified growth .....		[-15,000]
320	DEFENSE SECURITY SERVICE .....	889,664	889,664
340	DEFENSE SECURITY SERVICE—CYBER .....	9,220	9,220
360	DEFENSE TECHNICAL INFORMATION CENTER .....	3,000	3,000
370	DEFENSE TECHNOLOGY SECURITY ADMINISTRATION .....	35,626	35,626
380	DEFENSE THREAT REDUCTION AGENCY .....	568,133	568,133
400	DEFENSE THREAT REDUCTION AGENCY—CYBER .....	13,339	13,339
410	DEPARTMENT OF DEFENSE EDUCATION ACTIVITY .....	2,932,226	2,982,226
	Program increase—impact aid for children with severe disabilities .....		[10,000]
	Program increase—impact aid to schools with military dependents .....		[40,000]
420	MISSILE DEFENSE AGENCY .....	522,529	522,529
450	OFFICE OF ECONOMIC ADJUSTMENT .....	59,513	114,913
	Civilian growth .....		[400]
	Defense Community Infrastructure Program (DCIP) .....		[50,000]
	Program increase—military aviation noise pilot program .....		[5,000]
460	OFFICE OF THE SECRETARY OF DEFENSE .....	1,604,738	1,529,476
	Basic Needs Allowance for low-income regular members .....		[15,000]
	Excess growth .....		[-58,839]
	Increase to OUSD(A&S)—JASONS .....		[7,000]
	Military aviation safety commission .....		[3,000]
	Program decrease .....		[-53,000]
	Readiness and Environmental Protection Initiative increase .....		[25,000]
	Reduction to OUSD(R&E)—JASONS .....		[-7,000]
	Unjustified growth .....		[-6,423]
470	OFFICE OF THE SECRETARY OF DEFENSE—CYBER .....	48,783	48,783
480	SPACE DEVELOPMENT AGENCY .....	44,750	44,750
500	WASHINGTON HEADQUARTERS SERVICES .....	324,001	296,201
	Insufficient justification .....		[-27,800]
505	CLASSIFIED PROGRAMS .....	15,816,598	15,755,461
	Classified adjustment .....		[-26,000]
	Realignment to DISA for Sharkseer .....		[-35,137]
	<b>SUBTOTAL ADMIN &amp; SRVWIDE ACTIVITIES .....</b>	<b>30,132,549</b>	<b>30,118,387</b>
	<b>TOTAL OPERATION AND MAINTENANCE, DEFENSE-WIDE .....</b>	<b>37,479,841</b>	<b>37,369,379</b>
	<b>US COURT OF APPEALS FOR ARMED FORCES, DEF ADMINISTRATION AND ASSOCIATED ACTIVITIES</b>		
010	US COURT OF APPEALS FOR THE ARMED FORCES, DEFENSE .....	14,771	14,771
	<b>SUBTOTAL ADMINISTRATION AND ASSOCIATED ACTIVITIES .....</b>	<b>14,771</b>	<b>14,771</b>
	<b>TOTAL US COURT OF APPEALS FOR ARMED FORCES, DEF .....</b>	<b>14,771</b>	<b>14,771</b>

**SEC. 4301. OPERATION AND MAINTENANCE**  
*(In Thousands of Dollars)*

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
	<b>DOD ACQUISITION WORKFORCE DEVELOPMENT FUND</b>		
	<b>ACQUISITION WORKFORCE DEVELOPMENT</b>		
010	ACQ WORKFORCE DEV FD .....	400,000	375,000
	Program decrease .....		[-25,000]
	<b>SUBTOTAL ACQUISITION WORKFORCE DEVELOP- MENT</b> .....	<b>400,000</b>	<b>375,000</b>
	<b>TOTAL DOD ACQUISITION WORKFORCE DEVELOP- MENT FUND</b> .....	<b>400,000</b>	<b>375,000</b>
	<b>OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID</b>		
	<b>HUMANITARIAN ASSISTANCE</b>		
010	OVERSEAS HUMANITARIAN, DISASTER AND CIVIC AID .....	108,600	110,800
	Increase for HMA .....		[2,200]
	<b>SUBTOTAL HUMANITARIAN ASSISTANCE</b> .....	<b>108,600</b>	<b>110,800</b>
	<b>TOTAL OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID</b> .....	<b>108,600</b>	<b>110,800</b>
	<b>COOPERATIVE THREAT REDUCTION ACCOUNT</b>		
	<b>COOPERATIVE THREAT REDUCTION</b>		
010	COOPERATIVE THREAT REDUCTION .....	338,700	338,700
	<b>SUBTOTAL COOPERATIVE THREAT REDUCTION</b> .....	<b>338,700</b>	<b>338,700</b>
	<b>TOTAL COOPERATIVE THREAT REDUCTION AC- COUNT</b> .....	<b>338,700</b>	<b>338,700</b>
	<b>ENVIRONMENTAL RESTORATION, ARMY DEPARTMENT OF THE ARMY</b>		
050	ENVIRONMENTAL RESTORATION, ARMY .....	207,518	235,809
	Perfluorinated chemicals .....		[28,291]
	<b>SUBTOTAL DEPARTMENT OF THE ARMY</b> .....	<b>207,518</b>	<b>235,809</b>
	<b>TOTAL ENVIRONMENTAL RESTORATION, ARMY</b> .....	<b>207,518</b>	<b>235,809</b>
	<b>ENVIRONMENTAL RESTORATION, NAVY DEPARTMENT OF THE NAVY</b>		
060	ENVIRONMENTAL RESTORATION, NAVY .....	335,932	365,883
	Perfluorinated chemicals .....		[29,951]
	<b>SUBTOTAL DEPARTMENT OF THE NAVY</b> .....	<b>335,932</b>	<b>365,883</b>
	<b>TOTAL ENVIRONMENTAL RESTORATION, NAVY</b> .....	<b>335,932</b>	<b>365,883</b>
	<b>ENVIRONMENTAL RESTORATION, AIR FORCE DEPARTMENT OF THE AIR FORCE</b>		
070	ENVIRONMENTAL RESTORATION, AIR FORCE .....	302,744	365,808
	Perfluorinated chemicals .....		[63,064]
	<b>SUBTOTAL DEPARTMENT OF THE AIR FORCE</b> .....	<b>302,744</b>	<b>365,808</b>
	<b>TOTAL ENVIRONMENTAL RESTORATION, AIR FORCE</b> .....	<b>302,744</b>	<b>365,808</b>
	<b>ENVIRONMENTAL RESTORATION, DEFENSE-WIDE</b>		
080	ENVIRONMENTAL RESTORATION, DEFENSE-WIDE .....	9,105	19,002
	Perfluorinated chemicals .....		[9,897]
	<b>SUBTOTAL DEFENSE-WIDE</b> .....	<b>9,105</b>	<b>19,002</b>
	<b>TOTAL ENVIRONMENTAL RESTORATION, DE- FENSE-WIDE</b> .....	<b>9,105</b>	<b>19,002</b>
	<b>ENVIRONMENTAL RESTORATION FORMERLY USED SITES DEFENSE-WIDE</b>		
090	ENVIRONMENTAL RESTORATION FORMERLY USED SITES ..	216,499	216,499
	<b>SUBTOTAL DEFENSE-WIDE</b> .....	<b>216,499</b>	<b>216,499</b>
	<b>TOTAL ENVIRONMENTAL RESTORATION FOR- MERLY USED SITES</b> .....	<b>216,499</b>	<b>216,499</b>

<b>SEC. 4301. OPERATION AND MAINTENANCE</b> <i>(In Thousands of Dollars)</i>			
<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>TOTAL OPERATION &amp; MAINTENANCE</b> .....		<b>207,661,689</b>	<b>203,791,546</b>

**1 SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS**  
**2 CONTINGENCY OPERATIONS.**

<b>SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS</b> <i>(In Thousands of Dollars)</i>			
<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>OPERATION &amp; MAINTENANCE, ARMY</b>			
<b>OPERATING FORCES</b>			
010	MANEUVER UNITS .....	1,410,874	1,410,874
030	ECHELONS ABOVE BRIGADE .....	26,502	26,502
040	THEATER LEVEL ASSETS .....	2,274,490	2,274,490
050	LAND FORCES OPERATIONS SUPPORT .....	136,288	136,288
060	AVIATION ASSETS .....	300,240	300,240
070	FORCE READINESS OPERATIONS SUPPORT .....	3,415,009	4,515,009
	<i>Realignment from base</i> .....		[1,100,000]
080	LAND FORCES SYSTEMS READINESS .....	29,985	29,985
090	LAND FORCES DEPOT MAINTENANCE .....	86,931	86,931
100	BASE OPERATIONS SUPPORT .....	115,706	115,706
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ...	72,657	72,657
130	ADDITIONAL ACTIVITIES .....	6,397,586	6,397,586
140	COMMANDER'S EMERGENCY RESPONSE PROGRAM .....	5,000	0
	<i>Realignment of redress and loss funding</i> .....		[-5,000]
150	RESET .....	1,048,896	1,048,896
160	US AFRICA COMMAND .....	203,174	203,174
170	US EUROPEAN COMMAND .....	173,676	173,676
200	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS .....	188,529	188,529
210	CYBERSPACE ACTIVITIES—CYBERSECURITY .....	5,682	5,682
	<b>SUBTOTAL OPERATING FORCES</b> .....	<b>15,891,225</b>	<b>16,986,225</b>
<b>MOBILIZATION</b>			
230	ARMY PREPOSITIONED STOCKS .....	131,954	131,954
	<b>SUBTOTAL MOBILIZATION</b> .....	<b>131,954</b>	<b>131,954</b>
<b>ADMIN &amp; SRVWIDE ACTIVITIES</b>			
390	SERVICEMAN TRANSPORTATION .....	721,014	721,014
400	CENTRAL SUPPLY ACTIVITIES .....	66,845	66,845
410	LOGISTIC SUPPORT ACTIVITIES .....	9,309	9,309
420	AMMUNITION MANAGEMENT .....	23,653	23,653
460	OTHER PERSONNEL SUPPORT .....	109,019	109,019
490	REAL ESTATE MANAGEMENT .....	251,355	251,355
563	CLASSIFIED PROGRAMS .....	1,568,564	1,568,564
	<b>SUBTOTAL ADMIN &amp; SRVWIDE ACTIVITIES</b> .....	<b>2,749,759</b>	<b>2,749,759</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ARMY</b> .....	<b>18,772,938</b>	<b>19,867,938</b>
<b>OPERATION &amp; MAINTENANCE, ARMY RES</b>			
<b>OPERATING FORCES</b>			
020	ECHELONS ABOVE BRIGADE .....	20,440	20,440
060	FORCE READINESS OPERATIONS SUPPORT .....	689	689
090	BASE OPERATIONS SUPPORT .....	16,463	16,463
	<b>SUBTOTAL OPERATING FORCES</b> .....	<b>37,592</b>	<b>37,592</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ARMY RES</b> .....	<b>37,592</b>	<b>37,592</b>
<b>OPERATION &amp; MAINTENANCE, ARNG</b>			
<b>OPERATING FORCES</b>			
010	MANEUVER UNITS .....	45,896	45,896
020	MODULAR SUPPORT BRIGADES .....	180	180
030	ECHELONS ABOVE BRIGADE .....	2,982	2,982
040	THEATER LEVEL ASSETS .....	548	548
060	AVIATION ASSETS .....	9,229	9,229
070	FORCE READINESS OPERATIONS SUPPORT .....	1,584	1,584

**SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS**  
(In Thousands of Dollars)

<b>Line</b>	<b>Item</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
100	BASE OPERATIONS SUPPORT .....	22,063	22,063
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS .....	606	606
	<b>SUBTOTAL OPERATING FORCES</b> .....	<b>83,088</b>	<b>83,088</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
170	SERVICEWIDE COMMUNICATIONS .....	203	203
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES</b> .....	<b>203</b>	<b>203</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ARNG</b> .....	<b>83,291</b>	<b>83,291</b>
	<b>AFGHAN NATIONAL ARMY</b>		
090	SUSTAINMENT .....	1,313,047	1,313,047
100	INFRASTRUCTURE .....	37,152	37,152
110	EQUIPMENT AND TRANSPORTATION .....	120,868	120,868
120	TRAINING AND OPERATIONS .....	118,591	118,591
	<b>SUBTOTAL AFGHAN NATIONAL ARMY</b> .....	<b>1,589,658</b>	<b>1,589,658</b>
	<b>AFGHAN NATIONAL POLICE</b>		
130	SUSTAINMENT .....	422,806	422,806
140	INFRASTRUCTURE .....	2,358	2,358
150	EQUIPMENT AND TRANSPORTATION .....	127,081	127,081
160	TRAINING AND OPERATIONS .....	108,112	108,112
	<b>SUBTOTAL AFGHAN NATIONAL POLICE</b> .....	<b>660,357</b>	<b>660,357</b>
	<b>AFGHAN AIR FORCE</b>		
170	SUSTAINMENT .....	893,829	893,829
180	INFRASTRUCTURE .....	8,611	8,611
190	EQUIPMENT AND TRANSPORTATION .....	566,967	566,967
200	TRAINING AND OPERATIONS .....	356,108	356,108
	<b>SUBTOTAL AFGHAN AIR FORCE</b> .....	<b>1,825,515</b>	<b>1,825,515</b>
	<b>AFGHAN SPECIAL SECURITY FORCES</b>		
210	SUSTAINMENT .....	437,909	437,909
220	INFRASTRUCTURE .....	21,131	21,131
230	EQUIPMENT AND TRANSPORTATION .....	153,806	153,806
240	TRAINING AND OPERATIONS .....	115,602	115,602
	<b>SUBTOTAL AFGHAN SPECIAL SECURITY FORCES</b> .....	<b>728,448</b>	<b>728,448</b>
	<b>UNDISTRIBUTED</b>		
245	UNDISTRIBUTED .....		-300,000
	Unjustified request .....		[-300,000]
	<b>SUBTOTAL UNDISTRIBUTED</b> .....		<b>-300,000</b>
	<b>TOTAL AFGHANISTAN SECURITY FORCES FUND</b> .....	<b>4,803,978</b>	<b>4,503,978</b>
	<b>COUNTER ISIS TRAIN AND EQUIP FUND (CTEF)</b>		
010	IRAQ .....	745,000	663,000
	Unjustified request .....		[-82,000]
020	SYRIA .....	300,000	300,000
030	BORDER SECURITY .....		250,000
	Realignment of CTEF border security funding .....		[250,000]
	<b>SUBTOTAL COUNTER ISIS TRAIN AND EQUIP FUND (CTEF)</b> .....	<b>1,045,000</b>	<b>1,213,000</b>
	<b>TOTAL COUNTER ISIS TRAIN AND EQUIP FUND (CTEF)</b> ..	<b>1,045,000</b>	<b>1,213,000</b>
	<b>OPERATION &amp; MAINTENANCE, NAVY OPERATING FORCES</b>		
010	MISSION AND OTHER FLIGHT OPERATIONS .....	373,047	587,422
	Realignment from base .....		[214,375]
030	AVIATION TECHNICAL DATA & ENGINEERING SERVICES .....	816	816
040	AIR OPERATIONS AND SAFETY SUPPORT .....	9,582	9,582
050	AIR SYSTEMS SUPPORT .....	197,262	197,262
060	AIRCRAFT DEPOT MAINTENANCE .....	168,246	168,246
070	AIRCRAFT DEPOT OPERATIONS SUPPORT .....	3,594	3,594
080	AVIATION LOGISTICS .....	10,618	10,618
090	MISSION AND OTHER SHIP OPERATIONS .....	1,485,108	1,935,108
	Realignment from base .....		[450,000]
100	SHIP OPERATIONS SUPPORT & TRAINING .....	20,334	20,334

**SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS**  
(In Thousands of Dollars)

<i>Line</i>	<i>Item</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
110	SHIP DEPOT MAINTENANCE .....	2,365,615	2,365,615
130	COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE .....	58,092	58,092
140	SPACE SYSTEMS AND SURVEILLANCE .....	18,000	18,000
150	WARFARE TACTICS .....	16,984	16,984
160	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY .....	29,382	29,382
170	COMBAT SUPPORT FORCES .....	608,870	608,870
180	EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT .....	7,799	7,799
200	COMBATANT COMMANDERS DIRECT MISSION SUPPORT .....	24,800	24,800
220	CYBERSPACE ACTIVITIES .....	363	363
240	WEAPONS MAINTENANCE .....	486,188	486,188
250	OTHER WEAPON SYSTEMS SUPPORT .....	12,189	12,189
270	SUSTAINMENT, RESTORATION AND MODERNIZATION .....	68,667	68,667
280	BASE OPERATING SUPPORT .....	219,099	219,099
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>6,184,655</b>	<b>6,849,030</b>
	<b>MOBILIZATION</b>		
320	EXPEDITIONARY HEALTH SERVICES SYSTEMS .....	17,580	17,580
330	COAST GUARD SUPPORT .....	190,000	190,000
	<b>SUBTOTAL MOBILIZATION .....</b>	<b>207,580</b>	<b>207,580</b>
	<b>TRAINING AND RECRUITING</b>		
370	SPECIALIZED SKILL TRAINING .....	52,161	52,161
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>52,161</b>	<b>52,161</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
440	ADMINISTRATION .....	8,475	8,475
460	MILITARY MANPOWER AND PERSONNEL MANAGEMENT .....	7,653	7,653
490	SERVICEWIDE TRANSPORTATION .....	70,683	70,683
520	ACQUISITION, LOGISTICS, AND OVERSIGHT .....	11,130	11,130
530	INVESTIGATIVE AND SECURITY SERVICES .....	1,559	1,559
645	CLASSIFIED PROGRAMS .....	17,754	17,754
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>117,254</b>	<b>117,254</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, NAVY .....</b>	<b>6,561,650</b>	<b>7,226,025</b>
	<b>OPERATION &amp; MAINTENANCE, MARINE CORPS OPERATING FORCES</b>		
010	OPERATIONAL FORCES .....	714,653	714,653
020	FIELD LOGISTICS .....	232,508	232,508
030	DEPOT MAINTENANCE .....	54,101	54,101
050	CYBERSPACE ACTIVITIES .....	2,000	2,000
070	BASE OPERATING SUPPORT .....	24,570	24,570
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>1,027,832</b>	<b>1,027,832</b>
	<b>TRAINING AND RECRUITING</b>		
120	TRAINING SUPPORT .....	30,459	30,459
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>30,459</b>	<b>30,459</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
160	SERVICEWIDE TRANSPORTATION .....	61,400	61,400
225	CLASSIFIED PROGRAMS .....	5,100	5,100
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>66,500</b>	<b>66,500</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, MARINE CORPS ...</b>	<b>1,124,791</b>	<b>1,124,791</b>
	<b>OPERATION &amp; MAINTENANCE, NAVY RES OPERATING FORCES</b>		
020	INTERMEDIATE MAINTENANCE .....	510	510
030	AIRCRAFT DEPOT MAINTENANCE .....	11,628	11,628
080	COMBAT SUPPORT FORCES .....	10,898	10,898
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>23,036</b>	<b>23,036</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, NAVY RES .....</b>	<b>23,036</b>	<b>23,036</b>
	<b>OPERATION &amp; MAINTENANCE, MC RESERVE OPERATING FORCES</b>		
010	OPERATING FORCES .....	7,627	7,627
040	BASE OPERATING SUPPORT .....	1,080	1,080
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>8,707</b>	<b>8,707</b>

**SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS**  
(In Thousands of Dollars)

<i>Line</i>	<i>Item</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
	<b>TOTAL OPERATION &amp; MAINTENANCE, MC RESERVE .....</b>	<b>8,707</b>	<b>8,707</b>
	<b>OPERATION &amp; MAINTENANCE, AIR FORCE</b>		
	<b>OPERATING FORCES</b>		
010	PRIMARY COMBAT FORCES .....	163,632	163,632
020	COMBAT ENHANCEMENT FORCES .....	1,049,170	1,049,170
030	AIR OPERATIONS TRAINING (OJT, MAINTAIN SKILLS) .....	111,808	111,808
040	DEPOT PURCHASE EQUIPMENT MAINTENANCE .....	408,699	408,699
050	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ...	147,264	147,264
060	CYBERSPACE SUSTAINMENT .....	10,061	10,061
070	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT .....	953,594	953,594
080	FLYING HOUR PROGRAM .....	2,495,266	3,045,266
	<i>Realignment from base .....</i>		[550,000]
090	BASE SUPPORT .....	1,538,120	1,538,120
100	GLOBAL C3I AND EARLY WARNING .....	13,863	13,863
110	OTHER COMBAT OPS SPT PROGRAMS .....	272,020	272,020
120	CYBERSPACE ACTIVITIES .....	17,657	17,657
130	TACTICAL INTEL AND OTHER SPECIAL ACTIVITIES .....	36,098	36,098
140	LAUNCH FACILITIES .....	391	391
150	SPACE CONTROL SYSTEMS .....	39,990	39,990
160	US NORTHCOM/NORAD .....	725	725
170	US STRATCOM .....	926	926
180	US CYBERCOM .....	35,189	35,189
190	US CENTCOM .....	163,015	163,015
200	US SOCOM .....	19,000	19,000
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>7,476,488</b>	<b>8,026,488</b>
	<b>MOBILIZATION</b>		
240	AIRLIFT OPERATIONS .....	1,271,439	1,271,439
250	MOBILIZATION PREPAREDNESS .....	109,682	109,682
	<b>SUBTOTAL MOBILIZATION .....</b>	<b>1,381,121</b>	<b>1,381,121</b>
	<b>TRAINING AND RECRUITING</b>		
260	OFFICER ACQUISITION .....	200	200
270	RECRUIT TRAINING .....	352	352
290	SPECIALIZED SKILL TRAINING .....	26,802	26,802
300	FLIGHT TRAINING .....	844	844
310	PROFESSIONAL DEVELOPMENT EDUCATION .....	1,199	1,199
320	TRAINING SUPPORT .....	1,320	1,320
	<b>SUBTOTAL TRAINING AND RECRUITING .....</b>	<b>30,717</b>	<b>30,717</b>
	<b>ADMIN &amp; SRVWD ACTIVITIES</b>		
380	LOGISTICS OPERATIONS .....	164,701	164,701
390	TECHNICAL SUPPORT ACTIVITIES .....	11,608	11,608
400	ADMINISTRATION .....	4,814	4,814
410	SERVICEWIDE COMMUNICATIONS .....	145,204	145,204
420	OTHER SERVICEWIDE ACTIVITIES .....	98,841	98,841
460	INTERNATIONAL SUPPORT .....	29,890	29,890
463	CLASSIFIED PROGRAMS .....	52,995	52,995
	<b>SUBTOTAL ADMIN &amp; SRVWD ACTIVITIES .....</b>	<b>508,053</b>	<b>508,053</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, AIR FORCE .....</b>	<b>9,396,379</b>	<b>9,946,379</b>
	<b>OPERATION &amp; MAINTENANCE, AF RESERVE</b>		
	<b>OPERATING FORCES</b>		
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE .....	24,188	24,188
060	BASE SUPPORT .....	5,570	5,570
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>29,758</b>	<b>29,758</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, AF RESERVE .....</b>	<b>29,758</b>	<b>29,758</b>
	<b>OPERATION &amp; MAINTENANCE, ANG</b>		
	<b>OPERATING FORCES</b>		
020	MISSION SUPPORT OPERATIONS .....	3,666	3,666
030	DEPOT PURCHASE EQUIPMENT MAINTENANCE .....	66,944	66,944
050	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT .....	93,620	93,620
060	BASE SUPPORT .....	12,679	12,679
	<b>SUBTOTAL OPERATING FORCES .....</b>	<b>176,909</b>	<b>176,909</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE, ANG .....</b>	<b>176,909</b>	<b>176,909</b>

**SEC. 4302. OPERATION AND MAINTENANCE FOR OVERSEAS CONTINGENCY OPERATIONS**  
(In Thousands of Dollars)

<i>Line</i>	<i>Item</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
<b>OPERATION AND MAINTENANCE, DEFENSE-WIDE</b>			
<b>OPERATING FORCES</b>			
010	JOINT CHIEFS OF STAFF .....	21,866	21,866
020	JOINT CHIEFS OF STAFF—CE2T? .....	6,634	6,634
040	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT AC- TIVITIES .....	1,121,580	1,121,580
060	SPECIAL OPERATIONS COMMAND INTELLIGENCE .....	1,328,201	1,328,201
070	SPECIAL OPERATIONS COMMAND MAINTENANCE .....	399,845	399,845
090	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT .....	138,458	102,958
	<i>Project underexecution—communications</i> .....		[-35,500]
100	SPECIAL OPERATIONS COMMAND THEATER FORCES .....	808,729	808,729
	<b>SUBTOTAL OPERATING FORCES</b> .....	<b>3,825,313</b>	<b>3,789,813</b>
<b>ADMIN &amp; SRVWIDE ACTIVITIES</b>			
180	DEFENSE CONTRACT AUDIT AGENCY .....	1,810	1,810
200	DEFENSE CONTRACT MANAGEMENT AGENCY .....	21,723	21,723
230	DEFENSE INFORMATION SYSTEMS AGENCY .....	81,133	81,133
240	DEFENSE INFORMATION SYSTEMS AGENCY—CYBER .....	3,455	3,455
270	DEFENSE LEGAL SERVICES AGENCY .....	196,124	196,124
290	DEFENSE MEDIA ACTIVITY .....	14,377	14,377
310	DEFENSE SECURITY COOPERATION AGENCY .....	1,927,217	1,364,427
	<i>Realignment of CTEF border security funding</i> .....		[-250,000]
	<i>Transfer of funds to Ukraine Security Assistance</i> .....		[-250,000]
	<i>Unjustified growth</i> .....		[-62,790]
380	DEFENSE THREAT REDUCTION AGENCY .....	317,558	307,558
	<i>Program decrease</i> .....		[-10,000]
410	DEPARTMENT OF DEFENSE EDUCATION ACTIVITY .....	31,620	31,620
460	OFFICE OF THE SECRETARY OF DEFENSE .....	16,666	21,666
	<i>Realignment of redress and loss funding</i> .....		[5,000]
500	WASHINGTON HEADQUARTERS SERVICES .....	6,331	6,331
505	CLASSIFIED PROGRAMS .....	1,924,785	1,924,785
	<b>SUBTOTAL ADMIN &amp; SRVWIDE ACTIVITIES</b> .....	<b>4,542,799</b>	<b>3,975,009</b>
	<b>TOTAL OPERATION AND MAINTENANCE, DEFENSE- WIDE</b> .....	<b>8,368,112</b>	<b>7,764,822</b>
<b>UKRAINE SECURITY ASSISTANCE</b>			
<b>UKRAINE SECURITY ASSISTANCE</b>			
010	UKRAINE SECURITY ASSISTANCE .....		250,000
	<i>Transfer of funds from Defense Security Cooperation Agency</i> .....		[250,000]
	<b>SUBTOTAL UKRAINE SECURITY ASSISTANCE</b> .....		<b>250,000</b>
	<b>TOTAL UKRAINE SECURITY ASSISTANCE</b> .....		<b>250,000</b>
	<b>TOTAL OPERATION &amp; MAINTENANCE</b> .....	<b>50,432,141</b>	<b>52,256,226</b>

1                   **TITLE XLIV—MILITARY**  
2                   **PERSONNEL**

3   **SEC. 4401. MILITARY PERSONNEL.**

**SEC. 4401. MILITARY PERSONNEL**  
(In Thousands of Dollars)

<i>Item</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
<b>Military Personnel Appropriations</b> .....	<b>143,476,503</b>	<b>142,248,503</b>
<i>Historical unobligated balances</i> .....		[-1,228,000]
<b>Medicare-Eligible Retiree Health Fund Contribu- tions</b> .....	<b>7,816,815</b>	<b>7,816,815</b>

1 **SEC. 4402. MILITARY PERSONNEL FOR OVERSEAS CONTIN-**  
 2 **GENCY OPERATIONS.**

**SEC. 4402. MILITARY PERSONNEL FOR OVERSEAS CONTINGENCY OPERATIONS**  
*(In Thousands of Dollars)*

<i>Item</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
<b>Military Personnel Appropriations</b> .....	<b>4,485,808</b>	<b>4,485,808</b>

3 **TITLE XLV—OTHER**  
 4 **AUTHORIZATIONS**

5 **SEC. 4501. OTHER AUTHORIZATIONS.**

**SEC. 4501. OTHER AUTHORIZATIONS**  
*(In Thousands of Dollars)*

<i>Item</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
<b>WORKING CAPITAL FUND, ARMY</b>		
INDUSTRIAL OPERATIONS .....	57,467	57,467
SUPPLY MANAGEMENT—ARMY .....	32,130	32,130
<b>TOTAL WORKING CAPITAL FUND, ARMY</b> .....	<b>89,597</b>	<b>89,597</b>
<b>WORKING CAPITAL FUND, AIR FORCE</b>		
<b>TRANSPORTATION</b>		
SUPPLIES AND MATERIALS .....	92,499	92,499
<b>TOTAL WORKING CAPITAL FUND, AIR FORCE</b> ...	<b>92,499</b>	<b>92,499</b>
<b>WORKING CAPITAL FUND, DEFENSE-WIDE</b>		
SUPPLY CHAIN MANAGEMENT—DEF .....	49,085	49,085
<b>TOTAL WORKING CAPITAL FUND, DEFENSE- WIDE</b> .....	<b>49,085</b>	<b>49,085</b>
<b>WORKING CAPITAL FUND, DECA</b>		
WORKING CAPITAL FUND, DECA .....	995,030	995,030
<b>TOTAL WORKING CAPITAL FUND, DECA</b> .....	<b>995,030</b>	<b>995,030</b>
<b>NATIONAL DEFENSE SEALIFT FUND</b>		
LG MED SPD RO/RO MAINTENANCE .....		264,751
<i>Realignment from Operations and Maintenance, Navy</i> .....		[264,751]
DOD MOBILIZATION ALTERATIONS .....		9,590
<i>Realignment from Operations and Maintenance, Navy</i> .....		[9,590]
TAH MAINTENANCE .....		96,867
<i>Realignment from Operations and Maintenance, Navy</i> .....		[96,867]
READY RESERVE FORCE .....		352,044
<i>Realignment from Operations and Maintenance, Navy</i> .....		[352,044]
<b>TOTAL NATIONAL DEFENSE SEALIFT FUND</b> .....		<b>723,252</b>
<b>WCF, DEF COUNTERINTELLIGENCE &amp; SECURITY AGENCY</b>		
DEFENSE COUNTERINTELLIGENCE AND SECURITY AGEN- CY .....	200,000	200,000
<b>TOTAL WCF, DEF COUNTERINTELLIGENCE &amp; SECURITY AGENCY</b> .....	<b>200,000</b>	<b>200,000</b>
<b>CHEM AGENTS &amp; MUNITIONS DESTRUCTION</b>		
OPERATION & MAINTENANCE .....	107,351	107,351
RDT&E .....	875,930	865,930
<i>Unjustified growth</i> .....		[-10,000]

**SEC. 4501. OTHER AUTHORIZATIONS**  
(In Thousands of Dollars)

<i>Item</i>	<b>FY 2020 Request</b>	<b>House Authorized</b>
PROCUREMENT .....	2,218	2,218
<b>TOTAL CHEM AGENTS &amp; MUNITIONS DE- STRUCTION</b> .....	<b>985,499</b>	<b>975,499</b>
<b>DRUG INTERDICTION &amp; CTR-DRUG ACTIVITIES, DEF</b>		
COUNTER-NARCOTICS SUPPORT .....	581,739	517,171
<i>Realignment of National Guard Bureau funding</i> .....		[-30,921]
<i>Unjustified growth</i> .....		[-33,647]
DRUG DEMAND REDUCTION PROGRAM .....	120,922	120,922
NATIONAL GUARD COUNTER-DRUG PROGRAM .....	91,370	122,291
<i>Realignment of National Guard Bureau funding</i> .....		[30,921]
NATIONAL GUARD COUNTER-DRUG SCHOOLS .....	5,371	5,371
<b>TOTAL DRUG INTERDICTION &amp; CTR-DRUG AC- TIVITIES, DEF</b> .....	<b>799,402</b>	<b>765,755</b>
<b>OFFICE OF THE INSPECTOR GENERAL</b>		
OFFICE OF THE INSPECTOR GENERAL .....	359,022	359,022
OFFICE OF THE INSPECTOR GENERAL—CYBER .....	1,179	1,179
OFFICE OF THE INSPECTOR GENERAL .....	2,965	2,965
OFFICE OF THE INSPECTOR GENERAL .....	333	333
<b>TOTAL OFFICE OF THE INSPECTOR GENERAL</b> ..	<b>363,499</b>	<b>363,499</b>
<b>DEFENSE HEALTH PROGRAM</b>		
IN-HOUSE CARE .....	9,570,615	9,470,615
<i>Unjustified growth</i> .....		[-100,000]
PRIVATE SECTOR CARE .....	15,041,006	15,041,006
CONSOLIDATED HEALTH SUPPORT .....	1,975,536	1,975,536
INFORMATION MANAGEMENT .....	2,004,588	2,004,588
MANAGEMENT ACTIVITIES .....	333,246	333,246
EDUCATION AND TRAINING .....	793,810	793,810
BASE OPERATIONS/COMMUNICATIONS .....	2,093,289	2,093,289
UNDISTRIBUTED .....		7,000
<i>PFAS exposure blood testing for DoD firefighters</i> .....		[2,000]
<i>TRICARE lead level screening and testing for children</i> .....		[5,000]
R&D RESEARCH .....	12,621	22,621
<i>CDC ASTDR PFOS/PFOA health study increment</i> .....		[10,000]
R&D EXPLORATORY DEVELOPMENT .....	84,266	84,266
R&D ADVANCED DEVELOPMENT .....	279,766	279,766
R&D DEMONSTRATION/VALIDATION .....	128,055	128,055
R&D ENGINEERING DEVELOPMENT .....	143,527	158,527
<i>Deployment of mTBI/concussion multi-modal devices</i> .....		[10,000]
<i>Program increase—freeze dried platelets</i> .....		[5,000]
R&D MANAGEMENT AND SUPPORT .....	67,219	67,219
R&D CAPABILITIES ENHANCEMENT .....	16,819	16,819
PROC INITIAL OUTFITTING .....	26,135	26,135
PROC REPLACEMENT & MODERNIZATION .....	225,774	225,774
PROC JOINT OPERATIONAL MEDICINE INFORMATION SYS- TEM .....	314	314
PROC MILITARY HEALTH SYSTEM—DESKTOP TO DATACENTER .....	73,010	73,010
PROC DOD HEALTHCARE MANAGEMENT SYSTEM MOD- ERNIZATION .....	129,091	129,091
<b>TOTAL DEFENSE HEALTH PROGRAM</b> .....	<b>32,998,687</b>	<b>32,930,687</b>
<b>TOTAL OTHER AUTHORIZATIONS</b> .....	<b>36,573,298</b>	<b>37,184,903</b>

1 **SEC. 4502. OTHER AUTHORIZATIONS FOR OVERSEAS CON-**  
 2 **TINGENCY OPERATIONS.**

<b>SEC. 4502. OTHER AUTHORIZATIONS FOR OVERSEAS CONTINGENCY OPERATIONS</b> (In Thousands of Dollars)		
<i>Item</i>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>WORKING CAPITAL FUND, ARMY</b>		
<b>INDUSTRIAL OPERATIONS</b>		
SUPPLY MANAGEMENT—ARMY .....	20,100	20,100
<b>TOTAL WORKING CAPITAL FUND, ARMY .....</b>	<b>20,100</b>	<b>20,100</b>
<b>DRUG INTERDICTION &amp; CTR-DRUG ACTIVITIES, DEF</b>		
COUNTER-NARCOTICS SUPPORT .....	163,596	153,100
Unjustified growth .....		[-10,496]
<b>TOTAL DRUG INTERDICTION &amp; CTR-DRUG AC-</b> <b>TIVITIES, DEF .....</b>	<b>163,596</b>	<b>153,100</b>
<b>OFFICE OF THE INSPECTOR GENERAL</b>		
OFFICE OF THE INSPECTOR GENERAL .....	24,254	24,254
<b>TOTAL OFFICE OF THE INSPECTOR GENERAL .....</b>	<b>24,254</b>	<b>24,254</b>
<b>DEFENSE HEALTH PROGRAM</b>		
IN-HOUSE CARE .....	57,459	57,459
PRIVATE SECTOR CARE .....	287,487	287,487
CONSOLIDATED HEALTH SUPPORT .....	2,800	2,800
<b>TOTAL DEFENSE HEALTH PROGRAM .....</b>	<b>347,746</b>	<b>347,746</b>
<b>TOTAL OTHER AUTHORIZATIONS .....</b>	<b>555,696</b>	<b>545,200</b>

3 **TITLE XLVI—MILITARY**  
 4 **CONSTRUCTION**

5 **SEC. 4601. MILITARY CONSTRUCTION.**

<b>SEC. 4601. MILITARY CONSTRUCTION</b> (In Thousands of Dollars)				
<b>Account</b>	<b>State/Country and Installation</b>	<b>Project Title</b>	<b>FY 2020 Request</b>	<b>House Agreement</b>
	<i>Alabama</i>			
Army	Redstone Arsenal	Aircraft and Flight Equipment Building .....	38,000	38,000
	<i>Colorado</i>			
Army	Fort Carson	Company Operations Facility .....	71,000	71,000
	<i>Georgia</i>			
Army	Fort Gordon	Cyber Instructional Fac (Admin/Command) .....	107,000	70,000
Army	Hunter Army Airfield	Aircraft Maintenance Hangar .....	62,000	62,000
	<i>Hawaii</i>			
Army	Fort Shafter	Command and Control Facility, Incr 5 .....	60,000	60,000
	<i>Honduras</i>			
Army	Solo Cano Air Base	Aircraft Maintenance Hangar .....	34,000	34,000
	<i>Kentucky</i>			
Army	Fort Campbell	Automated Infantry Platoon Battle Course .....	7,100	7,100
Army	Fort Campbell	Easements .....	3,200	3,200
Army	Fort Campbell	General Purpose Maintenance Shop .....	51,000	51,000
	<i>Kwajalein</i>			
Army	Kwajalein Atoll	Air Traffic Control Tower and Terminal .....	0	40,000
	<i>Massachusetts</i>			
Army	U.S. Army Natick Soldier Systems Center	Human Engineering Lab .....	50,000	50,000
	<i>Michigan</i>			
Army	Detroit Arsenal	Substation .....	24,000	24,000
	<i>New York</i>			
Army	Fort Drum	Railhead .....	0	21,000
Army	Fort Drum	Unmanned Aerial Vehicle Hangar .....	23,000	23,000
	<i>North Carolina</i>			
Army	Fort Bragg	Dining Facility .....	12,500	12,500
	<i>Oklahoma</i>			

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Army	Fort Sill	Adv Individual Training Barracks Cplr, Ph2 .....	73,000	73,000
	Pennsylvania			
Army	Carlisle Barracks	General Instruction Building .....	98,000	60,000
	South Carolina			
Army	Fort Jackson	Reception Comple, Ph2 .....	54,000	54,000
	Texas			
Army	Corpus Christi Army Depot	Powertrain Facility (Machine Shop) .....	86,000	40,000
Army	Fort Hood	Barracks .....	32,000	32,000
Army	Fort Hood	Vehicle Bridge .....	0	18,500
	Virginia			
Army	Fort Belvoir	Secure Operations and Admin Facility .....	60,000	60,000
Army	Joint Base Langley-Eustis	Adv Individual Training Barracks Cplr, Ph4 .....	55,000	55,000
	Washington			
Army	Joint Base Lewis-McChord	Information Systems Facility .....	46,000	46,000
	Worldwide Unspecified			
Army	Unspecified Worldwide Locations	Host Nation Support .....	31,000	31,000
Army	Unspecified Worldwide Locations	Planning and Design .....	94,099	105,099
Army	Unspecified Worldwide Locations	Unspecified Minor Construction .....	70,600	70,600
Army	Unspecified Worldwide Locations	Unspecified Worldwide Construction .....	211,000	0
	Arizona			
Navy	Marine Corps Air Station Yuma	Bachelor Enlisted Quarters .....	0	99,600
Navy	Marine Corps Air Station Yuma	Hangar 95 Renovation & Addition .....	90,160	90,160
	Bahrain Island			
Navy	SW Asia	Electrical System Upgrade .....	53,360	0
	California			
Navy	Camp Pendleton	62 Area Mess Hall and Consolidated Warehouse .....	71,700	71,700
Navy	Camp Pendleton	1 MEF Consolidated Information Center .....	113,869	63,869
Navy	Marine Corps Air Station Miramar	Child Development Center .....	0	37,400
Navy	Naval Air Weapons Station China Lake	Runway & Taxiway Extension .....	64,500	64,500
Navy	Naval Base Coronado	Aircraft Paint Complex .....	0	79,000
Navy	Naval Base Coronado	Navy V-22 Hangar .....	86,830	86,830
Navy	Naval Base San Diego	Pier 8 Replacement (Inc) .....	59,353	59,353
Navy	Naval Base San Diego	PMO Facility Repair .....	0	9,900
Navy	Naval Weapons Station Seal Beach	Ammunition Pier .....	95,310	60,310
Navy	Naval Weapons Station Seal Beach	Missile Magazine .....	0	28,000
Navy	Travis Air Force Base	Alert Force Complex .....	64,000	64,000
	Connecticut			
Navy	Naval Submarine Base New London	SSN Berthing Pier 32 .....	72,260	72,260
	District of Columbia			
Navy	Naval Observatory	Master Time Clocks & Operations Fac (Inc) .....	75,600	0
	Florida			
Navy	Blount Island	Police Station and EOC Facility .....	0	18,700
Navy	Naval Air Station Jacksonville	Targeting & Surveillance Syst Prod Supp Fac .....	32,420	32,420
	Guam			
Navy	Joint Region Marianas	Bachelor Enlisted Quarters H .....	164,100	64,100
Navy	Joint Region Marianas	EOD Compound Facilities .....	61,900	61,900
Navy	Joint Region Marianas	Machine Gun Range (Inc) .....	91,287	91,287
	Hawaii			
Navy	Marine Corps Air Station Kaneohe Bay	Bachelor Enlisted Quarters .....	134,050	134,050
Navy	Naval Ammunition Depot West Loch	Magazine Consolidation, Phase 1 .....	53,790	53,790
	Italy			
Navy	Naval Air Station Sigonella	Communications Station .....	77,400	0
	Japan			
Navy	Fleet Activities Yokosuka	Pier 5 (Berths 2 and 3) .....	174,692	100,000
Navy	Marine Corps Air Station Iwakuni	VTOL Pad—South .....	15,870	15,870
	Maryland			
Navy	Saint Inigoes	Air Traffic Control Tower .....	0	15,000
	North Carolina			

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Navy	Camp Lejeune	10th Marines Hqrs Complex .....	35,110	35,110
Navy	Camp Lejeune	2nd MARDIV/2nd MLG Ops Center Replacement .....	60,130	60,130
Navy	Camp Lejeune	2nd Radio BN Complex, Phase 2 (Inc) .....	25,650	25,650
Navy	Camp Lejeune	ACV-AAV Maintenance Facility Upgrades .....	11,570	0
Navy	Camp Lejeune	II MEF Operations Center Replacement .....	122,200	62,200
Navy	Marine Corps Air Station Cherry Point	Aircraft Maintenance Hangar (Inc) .....	73,970	73,970
Navy	Marine Corps Air Station Cherry Point	ATC Tower & Airfield Operations .....	61,340	61,340
Navy	Marine Corps Air Station Cherry Point	F-35 Training and Simulator Facility .....	53,230	53,230
Navy	Marine Corps Air Station Cherry Point	Flightline Utility Modernization (Inc) .....	51,860	51,860
Navy	Marine Corps Air Station New River	CH-53K Cargo Loading Trainer .....	11,320	11,320
<i>Pennsylvania</i>				
Navy	Philadelphia	Machinery Control Development Center .....	0	66,000
<i>South Carolina</i>				
Navy	Parris Island	Range Improvements & Modernization Phase 3 .....	0	37,200
<i>Utah</i>				
Navy	Hill Air Force Base	D5 Missile Motor Receipt/Storage Fac (Inc) .....	50,520	50,520
<i>Virginia</i>				
Navy	Marine Corps Base Quantico	Wargaming Center .....	143,350	70,000
Navy	Naval Station Norfolk	Mariner Skills Training Center .....	79,100	79,100
Navy	Naval Station Norfolk	MH-60 & CMV-22B Corison Control and Paint Facility .....	0	49,000
Navy	Portsmouth Naval Shipyard	Dry Dock Flood Protection Improvements .....	48,930	48,930
Navy	Yorktown Naval Weapons Station	NMC Ordnance Facilities Recapitalization Phase 1 .....	0	59,000
<i>Washington</i>				
Navy	Bremerton	Dry Dock 4 & Pier 3 Modernization .....	51,010	51,010
Navy	Keyport	Undersea Vehicle Maintenance Facility .....	25,050	25,050
Navy	Naval Base Kitsap	Seawolf Service Pier Cost-to-Complete .....	0	48,000
<i>Worldwide Unspecified</i>				
Navy	Unspecified Worldwide Locations	Planning and Design .....	167,715	178,715
Navy	Unspecified Worldwide Locations	Unspecified Minor Construction .....	81,237	81,237
<i>Alaska</i>				
AF	Eielson Air Force Base	F-35 AME Storage Facility .....	8,600	8,600
<i>Arkansas</i>				
AF	Little Rock Air Force Base	C-130H/J Fuselage Trainer Facility .....	47,000	47,000
AF	Little Rock Air Force Base	Dormitory Cost-to-Complete .....	0	7,000
<i>Australia</i>				
AF	Tindal	APR-RAAF Tindal/Earth Covered Magazine .....	11,600	11,600
AF	Tindal	APR-RAAF Tindal/Bulk Storage Tanks .....	59,000	59,000
<i>California</i>				
AF	Travis Air Force Base	KC-46A Alter B181/B185/B187 Squad Ops/AMU .....	6,600	6,600
AF	Travis Air Force Base	KC-46A Regional Maintenance Training Facility .....	19,500	19,500
AF	Travis Air Force Base	MMHAS Aided Support .....	0	17,000
<i>Colorado</i>				
AF	Peterson Air Force Base	Sconorth Theater Operational Support Facility .....	0	54,000
AF	Schriever Air Force Base	Consolidated Space Operations Facility .....	148,000	74,000
AF	United States Air Force Academy	Consolidate Cadet Prep School Dormitory .....	0	49,000
<i>Cyprus</i>				
AF	Royal Air Force Akrotiri	New Dormitory for 1 ERS .....	27,000	27,000
<i>Georgia</i>				
AF	Moody Air Force Base	41 RQS III-60W Apron .....	0	12,500
<i>Guam</i>				
AF	Joint Region Marianas	Munitions Storage Igloos III .....	65,000	65,000
<i>Illinois</i>				
AF	Scott Air Force Base	Joint Operations & Mission Planning Center .....	100,000	100,000
<i>Japan</i>				
AF	Yokota Air Base	Fuel Receipt & Distribution Upgrade .....	12,400	12,400
<i>Jordan</i>				
AF	Azraq	Air Traffic Control Tower .....	24,000	0
AF	Azraq	Munitions Storage Area .....	42,000	0
<i>Mariana Islands</i>				
AF	Tinian	Airfield Development Phase 1 .....	109,000	25,000
AF	Tinian	Fuel Tanks W/ Pipeline/Hydrant System .....	109,000	25,000
AF	Tinian	Parking Apron .....	98,000	25,000

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	<i>Maryland</i>			
AF	Joint Base Andrews	Presidential Aircraft Recap Complex Inc 3 .....	86,000	86,000
	<i>Massachusetts</i>			
AF	Hanscom Air Force Base	MIT-Lincoln Lab (West Lab CSL/MIF) Inc 2 .....	135,000	100,000
	<i>Missouri</i>			
AF	Whiteman Air Force Base	Consolidated Vehicle Ops and MX Facility .....	0	27,000
	<i>Montana</i>			
AF	Malmstrom Air Force Base	Weapons Storage and Maintenance Facility .....	235,000	117,500
	<i>Nevada</i>			
AF	Nellis Air Force Base	365th ISR Group Facility .....	57,000	57,000
AF	Nellis Air Force Base	F-35 Munitions Maintenance Facilities Cost-to-Complete.	0	3,100
AF	Nellis Air Force Base	F-35A Munitions Assembly Conveyor Facility .....	8,200	8,200
	<i>New Mexico</i>			
AF	Holloman Air Force Base	NC3 Support Wrm Storage/Shipping Facility .....	0	20,000
AF	Kirtland Air Force Base	Combat Rescue Helicopter Simulator (CRH) ADAL ..	15,500	15,500
AF	Kirtland Air Force Base	UH-1 Replacement Facility .....	22,400	22,400
	<i>North Dakota</i>			
AF	Minot Air Force Base	Helo/TRFOps/AMU Facility .....	5,500	5,500
	<i>Ohio</i>			
AF	Wright-Patterson Air Force Base	ADAL Intelligence Prod. Complex (NASIC) Inc 2 .....	120,900	120,900
	<i>Texas</i>			
AF	Joint Base San Antonio	Aquatics Tank .....	69,000	69,000
AF	Joint Base San Antonio	BMT Recruit Dormitory 8 .....	110,000	110,000
AF	Joint Base San Antonio	T-XA DAL Ground Based Trng Sys (GBTS) Sim .....	9,300	9,300
AF	Joint Base San Antonio	T-XX Trng Sys Centralized Trng Fac .....	19,000	19,000
AF	Joint Base San Antonio-Randolph	AFPC B-Wing .....	0	36,000
	<i>United Kingdom</i>			
AF	Royal Air Force Lakenheath	F-35A PGM Facility .....	14,300	14,300
	<i>Utah</i>			
AF	Hill Air Force Base	GBSD Mission Integration Facility .....	108,000	40,000
AF	Hill Air Force Base	Joint Advanced Tactical Missile Storage Fac .....	6,500	6,500
	<i>Washington</i>			
AF	Fairchild Air Force Base	Consolidated TFI Base Operations .....	31,000	31,000
AF	Fairchild Air Force Base	SERE Pipeline Dormitory Cost-to-Complete .....	0	4,800
	<i>Worldwide Unspecified</i>			
AF	Various Worldwide Locations	Planning and Design .....	142,148	153,148
AF	Various Worldwide Locations	Unspecified Minor Construction .....	79,682	79,682
	<i>Wyoming</i>			
AF	F. E. Warren Air Force Base	Consolidated Helo/TRF Ops/AMU and Alert Fac .....	18,100	18,100
	<i>California</i>			
Def-Wide	Beale Air Force Base	Hydrant Fuel System Replacement .....	33,700	33,700
Def-Wide	Camp Pendleton	Ambul Care Center/Dental Clinic Replacement .....	17,700	17,700
	<i>Conus Classified</i>			
Def-Wide	Classified Location	Battalion Complex, Ph 3 .....	82,200	82,200
	<i>Florida</i>			
Def-Wide	Eglin Air Force Base	SOF Combined Squadron Ops Facility .....	16,500	16,500
Def-Wide	Hurlburt Field	SOF AMU & Weapons Hangar .....	72,923	72,923
Def-Wide	Hurlburt Field	SOF Combined Squadron Operations Facility .....	16,513	16,513
Def-Wide	Hurlburt Field	SOF Maintenance Training Facility .....	18,950	18,950
Def-Wide	Naval Air Station Key West	SOF Watercraft Maintenance Facility .....	16,000	16,000
	<i>Germany</i>			
Def-Wide	Geilenkirchen Air Base	Ambulatory Care Center/Dental Clinic .....	30,479	30,479
	<i>Guam</i>			
Def-Wide	Joint Region Marianas	Xray Wharf Refueling Facility .....	19,200	19,200
	<i>Hawaii</i>			
Def-Wide	Joint Base Pearl Harbor-Hickam	SOF Undersea Operational Training Facility .....	67,700	67,700
	<i>Japan</i>			
Def-Wide	Yokosuka	Kinnick High School Inc 2 .....	130,386	0
Def-Wide	Yokota Air Base	Bulk Storage Tanks PH1 .....	116,305	20,000
Def-Wide	Yokota Air Base	Pacific East District Superintendent's Office .....	20,106	20,106
	<i>Maryland</i>			
Def-Wide	Bethesda Naval Hospital	MEDCEN Addition/Altertion Iner 3 .....	96,900	33,000

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Def-Wide	Fort Detrick	Medical Research Acquisition Building .....	27,846	27,846
Def-Wide	Fort Meade	NSAW Recapitalize Building #3 Inc 2 .....	426,000	426,000
	Mississippi			
Def-Wide	Columbus Air Force Base	Fuel Facilities Replacement .....	16,800	16,800
	Missouri			
Def-Wide	Fort Leonard Wood	Hospital Replacement Incr 2 .....	50,000	50,000
Def-Wide	St. Louis	Next NGA West (N2W) Complex Phase 2 Inc. 2 .....	218,800	118,800
	North Carolina			
Def-Wide	Camp Lejeune	SOF Marine Raider Regiment HQ .....	13,400	13,400
Def-Wide	Fort Bragg	SOF Assessment and Selection Training Complex .....	12,103	12,103
Def-Wide	Fort Bragg	SOF Human Platform-Force Generation Facility .....	43,000	43,000
Def-Wide	Fort Bragg	SOF Operations Support Bldg .....	29,000	29,000
	Oklahoma			
Def-Wide	Tulsa LAP	Fuels Storage Complex .....	18,900	18,900
	Rhode Island			
Def-Wide	Quonset State Airport	Fuels Storage Complex Replacement .....	11,600	11,600
	South Carolina			
Def-Wide	Joint Base Charleston	Medical Consolidated Storage & Distrib Center .....	33,300	33,300
	South Dakota			
Def-Wide	Ellsworth Air Force Base	Hydrant Fuel System Replacement .....	24,800	24,800
	Virginia			
Def-Wide	Defense Distribution Depot Richmond	Operations Center Phase 2 .....	98,800	33,000
Def-Wide	Joint Expeditionary Base Little Creek—Fort Story	SOF NSWG-10 Operations Support Facility .....	32,600	32,600
Def-Wide	Joint Expeditionary Base Little Creek—Fort Story	SOF NSWG2 JSOTF Ops Training Facility .....	13,004	13,004
Def-Wide	Pentagon	Backup Generator .....	8,670	8,670
Def-Wide	Pentagon	Control Tower & Fire Day Station .....	20,132	20,132
Def-Wide	Training Center Dam Neck	SOF Demolition Training Compound Expansion .....	12,770	12,770
	Washington			
Def-Wide	Joint Base Lewis-McChord	SOF 22 STS Operations Facility .....	47,700	47,700
	Wisconsin			
Def-Wide	Gen Mitchell IAP	POL Facilities Replacement .....	25,900	25,900
	Worldwide Classified			
Def-Wide	Classified Location	Mission Support Compound .....	52,000	0
	Worldwide Unspecified			
Def-Wide	Unspecified Worldwide Locations	Contingency Construction .....	10,000	0
Def-Wide	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog. ....	150,000	190,000
Def-Wide	Unspecified Worldwide Locations	ERCIP Design .....	10,000	10,000
Def-Wide	Unspecified Worldwide Locations	Exercise Related Minor Construction .....	11,770	11,770
Def-Wide	Unspecified Worldwide Locations	Planning and Design .....	99,441	99,441
Def-Wide	Unspecified Worldwide Locations	Unspecified Minor Construction .....	60,642	60,642
Def-Wide	Various Worldwide Locations	Planning and Design .....	142,914	142,914
Def-Wide	Various Worldwide Locations	Unspecified Minor Construction .....	26,736	26,736
NATO	NATO Security Investment Program	NATO Security Investment Program .....	144,040	172,005
	Alabama			
Army NG	Anniston Army Depot	Enlisted Transient Barracks .....	0	34,000
Army NG	Foley	National Guard Readiness Center .....	12,000	12,000
	California			
Army NG	Camp Roberts	Automated Multipurpose Machine Gun Range .....	12,000	12,000
	Idaho			
Army NG	Orchard Combat Training Center	Railroad Tracks .....	29,000	29,000
	Maryland			
Army NG	Havre de Grace	Combined Support Maintenance Shop .....	12,000	12,000
	Massachusetts			
Army NG	Camp Edwards	Automated Multipurpose Machine Gun Range .....	9,700	9,700
	Minnesota			
Army NG	New Ulm	National Guard Vehicle Maintenance Shop .....	11,200	11,200
	Mississippi			
Army NG	Camp Shelby	Automated Multipurpose Machine Gun Range .....	8,100	8,100
	Missouri			

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Army NG	Springfield Nebraska	National Guard Readiness Center .....	12,000	12,000
Army NG	Bellevue New Hampshire	National Guard Readiness Center .....	29,000	29,000
Army NG	Concord New York	National Guard Readiness Center .....	5,950	5,950
Army NG	Jamaica Armory Pennsylvania	National Guard Readiness Center .....	0	91,000
Army NG	Moon Township Vermont	Combined Support Maintenance Shop .....	23,000	23,000
Army NG	Jericho Washington	General Instruction Building .....	0	30,000
Army NG	Richland Worldwide Unspecified	National Guard Readiness Center .....	11,400	11,400
Army NG	Unspecified Worldwide Locations	Planning and Design .....	20,469	20,469
Army NG	Unspecified Worldwide Locations	Unspecified Minor Construction .....	15,000	15,000
Army Res	Delaware Newark	Army Reserve Center/BMA .....	21,000	21,000
Army Res	Wisconsin Fort McCoy	Transient Training Barracks .....	25,000	25,000
Army Res	Worldwide Unspecified Unspecified Worldwide Locations	Planning and Design .....	6,000	6,000
Army Res	Unspecified Worldwide Locations	Unspecified Minor Construction .....	8,928	8,928
N/MC Res	Louisiana New Orleans	Entry Control Facility Upgrades .....	25,260	25,260
N/MC Res	Worldwide Unspecified Unspecified Worldwide Locations	Planning and Design .....	4,780	4,780
N/MC Res	Unspecified Worldwide Locations	Unspecified Minor Construction .....	24,915	24,915
Air NG	California Moffett Air National Guard Base	Fuels/Corrosion Control Hanger and Shops .....	0	57,000
Air NG	Georgia Savannah/Hilton Head IAP	Consolidated Joint Air Dominance Hangar/Shops .....	24,000	24,000
Air NG	Missouri Roscerans Memorial Airport	C-130 Flight Simulator Facility .....	9,500	9,500
Air NG	Puerto Rico Luis Munoz-Marin IAP	Communications Facility .....	12,500	0
Air NG	Luis Munoz-Marin IAP	Maintenance Hangar .....	37,500	0
Air NG	Wisconsin Truax Field	F-35 Simulator Facility .....	14,000	14,000
Air NG	Truax Field	Fighter Alert Shelters .....	20,000	20,000
Air NG	Worldwide Unspecified Unspecified Worldwide Locations	Unspecified Minor Construction .....	31,471	31,471
Air NG	Various Worldwide Lo- cations	Planning and Design .....	17,000	17,000
AF Res	Georgia Robins Air Force Base	Consolidated Mission Complex Phase 3 .....	43,000	43,000
AF Res	Maryland Joint Base Andrews	AES Training Admin Facility .....	0	15,000
AF Res	Minnesota Minneapolis-St. Paul IAP	Aerial Port Facility .....	0	9,800
AF Res	Worldwide Unspecified Unspecified Worldwide Locations	Planning and Design .....	4,604	4,604
AF Res	Unspecified Worldwide Locations	Unspecified Minor Construction .....	12,146	12,146
FH Con Army	Germany Baunholder	Family Housing Improvements .....	29,983	29,983
FH Con Army	Korea Camp Humphreys	Family Housing New Construction Incr 4 .....	83,167	83,167
FH Con Army	Pennsylvania Tobyhanna Army Depot	Family Housing Replacement Construction .....	19,000	19,000
FH Con Army	Worldwide Unspecified Unspecified Worldwide Locations	Family Housing P & D .....	9,222	9,222
FH Ops Army	Unspecified Worldwide Locations	Furnishings .....	24,027	24,027
FH Ops Army	Unspecified Worldwide Locations	Housing Privatization Support .....	18,627	68,627

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<i>FH Ops Army</i>	<i>Unspecified Worldwide Locations</i>	<i>Leasing .....</i>	<i>128,938</i>	<i>128,938</i>
<i>FH Ops Army</i>	<i>Unspecified Worldwide Locations</i>	<i>Maintenance .....</i>	<i>81,065</i>	<i>81,065</i>
<i>FH Ops Army</i>	<i>Unspecified Worldwide Locations</i>	<i>Management .....</i>	<i>38,898</i>	<i>38,898</i>
<i>FH Ops Army</i>	<i>Unspecified Worldwide Locations</i>	<i>Miscellaneous .....</i>	<i>484</i>	<i>484</i>
<i>FH Ops Army</i>	<i>Unspecified Worldwide Locations</i>	<i>Services .....</i>	<i>10,156</i>	<i>10,156</i>
<i>FH Ops Army</i>	<i>Unspecified Worldwide Locations</i>	<i>Utilities .....</i>	<i>55,712</i>	<i>55,712</i>
<i>FH Con Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Construction Improvements .....</i>	<i>41,798</i>	<i>41,798</i>
<i>FH Con Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Planning &amp; Design .....</i>	<i>3,863</i>	<i>3,863</i>
<i>FH Con Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>USMC DPRJ/Guam Planning and Design .....</i>	<i>2,000</i>	<i>2,000</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Furnishings .....</i>	<i>19,009</i>	<i>19,009</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Housing Privatization Support .....</i>	<i>21,975</i>	<i>81,575</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Leasing .....</i>	<i>64,126</i>	<i>64,126</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Maintenance .....</i>	<i>82,611</i>	<i>82,611</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Management .....</i>	<i>50,122</i>	<i>50,122</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Miscellaneous .....</i>	<i>151</i>	<i>151</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Services .....</i>	<i>16,647</i>	<i>16,647</i>
<i>FH Ops Navy</i>	<i>Unspecified Worldwide Locations</i>	<i>Utilities .....</i>	<i>63,229</i>	<i>63,229</i>
	<i>Germany</i>			
<i>FH Con AF</i>	<i>Spangdahlem Air Base Worldwide Unspecified</i>	<i>Construct Deficit Military Family Housing .....</i>	<i>53,584</i>	<i>53,584</i>
<i>FH Con AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Construction Improvements .....</i>	<i>46,638</i>	<i>46,638</i>
<i>FH Con AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Planning &amp; Design .....</i>	<i>3,409</i>	<i>3,409</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Furnishings .....</i>	<i>30,283</i>	<i>30,283</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Housing Privatization .....</i>	<i>22,593</i>	<i>53,793</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Leasing .....</i>	<i>15,768</i>	<i>15,768</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Maintenance .....</i>	<i>117,704</i>	<i>117,704</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Management .....</i>	<i>56,022</i>	<i>56,022</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Miscellaneous .....</i>	<i>2,144</i>	<i>2,144</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Services .....</i>	<i>7,770</i>	<i>7,770</i>
<i>FH Ops AF</i>	<i>Unspecified Worldwide Locations</i>	<i>Utilities .....</i>	<i>42,732</i>	<i>42,732</i>
<i>FH Ops DW</i>	<i>Unspecified Worldwide Locations</i>	<i>Furnishings .....</i>	<i>727</i>	<i>727</i>
<i>FH Ops DW</i>	<i>Unspecified Worldwide Locations</i>	<i>Leasing .....</i>	<i>52,128</i>	<i>52,128</i>
<i>FH Ops DW</i>	<i>Unspecified Worldwide Locations</i>	<i>Maintenance .....</i>	<i>32</i>	<i>32</i>
<i>FH Ops DW</i>	<i>Unspecified Worldwide Locations</i>	<i>Utilities .....</i>	<i>4,113</i>	<i>4,113</i>
<i>FHIF</i>	<i>Unspecified Worldwide Locations</i>	<i>Administrative Expenses—FHIF .....</i>	<i>3,045</i>	<i>3,045</i>
<i>UHIF</i>	<i>Unspecified Worldwide Locations</i>	<i>Administrative Expenses—UHIF .....</i>	<i>500</i>	<i>500</i>
<i>BRAC</i>	<i>Worldwide Unspecified Locations</i>	<i>Base Realignment and Closure .....</i>	<i>66,111</i>	<i>96,111</i>
<i>BRAC</i>	<i>Unspecified Worldwide Locations</i>	<i>Base Realignment &amp; Closure .....</i>	<i>158,349</i>	<i>218,349</i>
<i>BRAC</i>	<i>Unspecified Worldwide Locations</i>	<i>DoD BRAC Activities—Air Force .....</i>	<i>54,066</i>	<i>84,066</i>
	<i>Prior Year Savings</i>			
<i>PYS</i>	<i>Prior Year Savings</i>	<i>Prior Year Savings .....</i>	<i>0</i>	<i>-45,055</i>

1 **SEC. 4602. MILITARY CONSTRUCTION FOR OVERSEAS CON-**  
 2 **TINGENCY OPERATIONS.**

**SEC. 4602. MILITARY CONSTRUCTION FOR OVERSEAS CONTINGENCY OPERATIONS**  
*(In Thousands of Dollars)*

<b>Account</b>	<b>State/Country and Installation</b>	<b>Project Title</b>	<b>FY 2020 Request</b>	<b>House Agreement</b>
	<i>Guantanamo Bay, Cuba</i>			
Army	Guantanamo Bay Naval Station	OCO: Communications Facility .....	22,000	22,000
Army	Guantanamo Bay Naval Station	OCO: Detention Legal Office and Comms Ctr .....	11,800	11,800
Army	Guantanamo Bay Naval Station	OCO: High Value Detention Facility .....	88,500	0
	<i>Worldwide Unspecified</i>			
Army	Unspecified Worldwide Locations	EDI/OCO Planning and Design .....	19,498	19,498
Army	Unspecified Worldwide Locations	EDI: Bulk Fuel Storage .....	36,000	36,000
Army	Unspecified Worldwide Locations	EDI: Information Systems Facility .....	6,200	6,200
Army	Unspecified Worldwide Locations	EDI: Minor Construction .....	5,220	5,220
Army	Unspecified Worldwide Locations	Unspecified Worldwide Construction .....	9,200,000	0
Army	Various Worldwide Locations	EDI: Various Worldwide Locations Europe .....	0	56,142
	<i>Bahrain</i>			
Navy	SW Asia	Electrical System Upgrade .....	0	53,360
	<i>Italy</i>			
Navy	Signonella	Communications Station .....	0	77,400
	<i>Spain</i>			
Navy	Rota	EDI: In-Transit Munitions Facility .....	9,960	9,960
Navy	Rota	EDI: Joint Mobility Center .....	46,840	46,840
Navy	Rota	EDI: Small Craft Berthing Facility .....	12,770	12,770
	<i>Worldwide Unspecified</i>			
Navy	Unspecified Worldwide Locations	Planning and Design .....	25,000	25,000
Navy	Various Worldwide Locations	EDI: Various Worldwide Locations Europe .....	0	56,246
	<i>Iceland</i>			
AF	Keflavik	EDI-Airfield Upgrades—Dangerous Cargo Pad .....	18,000	18,000
AF	Keflavik	EDI-Beddown Site Prep .....	7,000	7,000
AF	Keflavik	EDI-Expand Parking Apron .....	32,000	32,000
	<i>Jordan</i>			
AF	Azraq	Air Traffic Control Tower .....	0	24,000
AF	Azraq	Munitions Storage Area .....	0	42,000
	<i>Spain</i>			
AF	Moron	EDI-Hot Cargo Pad .....	8,500	8,500
	<i>Worldwide Unspecified</i>			
AF	Unspecified Worldwide Locations	EDI-ECAOS DABS/FEV EMEDS Storage .....	107,000	107,000
AF	Unspecified Worldwide Locations	EDI-Hot Cargo Pad .....	29,000	29,000
AF	Unspecified Worldwide Locations	EDI-Munitions Storage Area .....	39,000	39,000
AF	Various Worldwide Locations	EDI: Various Worldwide Locations Europe .....	0	56,246
AF	Various Worldwide Locations	EDI-P&D .....	61,438	61,438
AF	Various Worldwide Locations	EDI-UMMC .....	12,800	12,800
	<i>Germany</i>			
Def-Wide	Gemersheim	EDI: Logistics Distribution Center Annex .....	46,000	46,000

1 **TITLE XLVII—DEPARTMENT OF**  
 2 **ENERGY NATIONAL SECURITY**  
 3 **PROGRAMS**

4 **SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY**  
 5 **PROGRAMS.**

<b>SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS</b> (In Thousands of Dollars)		
<b>Program</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>Discretionary Summary By Appropriation</b>		
<b>Energy And Water Development, And Related Agencies</b>		
<b>Appropriation Summary:</b>		
<b>Energy Programs</b>		
Nuclear Energy .....	137,808	137,808
<b>Atomic Energy Defense Activities</b>		
<b>National nuclear security administration:</b>		
Weapons activities .....	12,408,603	11,807,074
Defense nuclear nonproliferation .....	1,993,302	2,005,087
Naval reactors .....	1,648,396	1,632,142
Federal salaries and expenses .....	434,699	410,000
<b>Total, National nuclear security administration .....</b>	<b>16,485,000</b>	<b>15,854,303</b>
<b>Environmental and other defense activities:</b>		
Defense environmental cleanup .....	5,506,501	5,616,001
Other defense activities .....	1,035,339	1,035,339
Defense nuclear waste disposal .....	26,000	0
<b>Total, Environmental &amp; other defense activities .....</b>	<b>6,567,840</b>	<b>6,651,340</b>
<b>Total, Atomic Energy Defense Activities .....</b>	<b>23,052,840</b>	<b>22,505,643</b>
<b>Total, Discretionary Funding .....</b>	<b>23,190,648</b>	<b>22,643,451</b>
<b>Nuclear Energy</b>		
Idaho site-wide safeguards and security .....	137,808	137,808
<b>Total, Nuclear Energy .....</b>	<b>137,808</b>	<b>137,808</b>
<b>Weapons Activities</b>		
<b>Directed stockpile work</b>		
<b>Life extension programs and major alterations</b>		
B61-12 Life extension program .....	792,611	792,611
W76-2 Modification program .....	10,000	0
Terminate effort .....		[-10,000]
W88 Alt 370 .....	304,186	304,186
W80-4 Life extension program .....	898,551	898,551
W87-1 Modification Program (formerly IW1) .....	112,011	53,000
Unjustified growth .....		[-59,011]
<b>Total, Life extension programs and major alterations .....</b>	<b>2,117,359</b>	<b>2,048,348</b>
<b>Stockpile systems</b>		
B61 Stockpile systems .....	71,232	71,232
W76 Stockpile systems .....	89,804	89,804
W78 Stockpile systems .....	81,299	81,299
W80 Stockpile systems .....	85,811	80,204
Unjustified study requirement .....		[-5,607]
B83 Stockpile systems .....	51,543	22,421
Unjustified growth .....		[-29,122]
W87 Stockpile systems .....	98,262	98,262
W88 Stockpile systems .....	157,815	157,815
<b>Total, Stockpile systems .....</b>	<b>635,766</b>	<b>601,037</b>
<b>Weapons dismantlement and disposition</b>		
Operations and maintenance .....	47,500	47,500
<b>Stockpile services</b>		
Production support .....	543,964	510,000

**SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS**  
(In Thousands of Dollars)

<b>Program</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
Unjustified program growth .....		[-33,964]
Research and development support .....	39,339	36,150
Unjustified program growth .....		[-3,189]
R&D certification and safety .....	236,235	201,840
Unjustified program growth .....		[-34,395]
Management, technology, and production .....	305,000	305,000
<b>Total, Stockpile services .....</b>	<b>1,124,538</b>	<b>1,052,990</b>
<b>Strategic materials</b>		
Uranium sustainment .....	94,146	94,146
Plutonium sustainment .....	712,440	471,309
Pit production beyond 30 pits per year .....		[-241,131]
Tritium sustainment .....	269,000	269,000
Lithium sustainment .....	28,800	28,800
Domestic uranium enrichment .....	140,000	140,000
Strategic materials sustainment .....	256,808	256,808
<b>Total, Strategic materials .....</b>	<b>1,501,194</b>	<b>1,260,063</b>
<b>Total, Directed stockpile work .....</b>	<b>5,426,357</b>	<b>5,009,938</b>
<b>Research, development, test and evaluation (RDT&amp;E)</b>		
<b>Science</b>		
Advanced certification .....	57,710	57,710
Primary assessment technologies .....	95,169	95,169
Dynamic materials properties .....	133,800	133,800
Advanced radiography .....	32,544	32,544
Secondary assessment technologies .....	77,553	77,553
Academic alliances and partnerships .....	44,625	44,625
Enhanced Capabilities for Subcritical Experiments .....	145,160	145,160
<b>Total, Science .....</b>	<b>586,561</b>	<b>586,561</b>
<b>Engineering</b>		
Enhanced surety .....	46,500	39,717
Unjustified program growth .....		[-6,783]
Delivery Environments (formerly Weapons Systems Engineering Assessment Technology) .....	35,945	23,029
Unjustified program growth .....		[-12,916]
Nuclear survivability .....	53,932	53,932
Enhanced surveillance .....	57,747	57,747
Stockpile Responsiveness .....	39,830	5,000
Unjustified request .....		[-34,830]
<b>Total, Engineering .....</b>	<b>233,954</b>	<b>179,425</b>
<b>Inertial confinement fusion ignition and high yield</b>		
Ignition and Other Stockpile Programs .....	55,649	55,649
Diagnostics, cryogenics and experimental support .....	66,128	66,128
Pulsed power inertial confinement fusion .....	8,571	8,571
Joint program in high energy density laboratory plasmas .....	12,000	12,000
Facility operations and target production .....	338,247	338,247
High energy density R&D .....	0	0
National ignition facility, LLNL .....	0	0
Z Facility, SNL .....	0	0
Omega laser facility, URochester .....	0	0
<b>Total, Inertial confinement fusion and high yield .....</b>	<b>480,595</b>	<b>480,595</b>
<b>Advanced simulation and computing</b>		
Advanced simulation and computing .....	789,849	789,849
<b>Construction:</b>		
18-D-620, Erascale Computing Facility Modernization Project, LLNL .....	50,000	50,000
<b>Total, Construction .....</b>	<b>50,000</b>	<b>50,000</b>
<b>Total, Advanced simulation and computing .....</b>	<b>839,849</b>	<b>839,849</b>
<b>Advanced manufacturing</b>		
Additive manufacturing .....	18,500	18,500
Component manufacturing development .....	48,410	48,410
Process technology development .....	69,998	30,914
Unjustified program growth .....		[-39,804]
<b>Total, Advanced manufacturing .....</b>	<b>136,908</b>	<b>97,824</b>
<b>Total, RDT&amp;E .....</b>	<b>2,277,867</b>	<b>2,184,254</b>

**SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS**  
(In Thousands of Dollars)

<b>Program</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>Infrastructure and operations</b>		
Operations of facilities .....	905,000	870,000
Unjustified program growth .....		[-35,000]
Safety and environmental operations .....	119,000	110,000
Unjustified program growth .....		[-9,000]
Maintenance and repair of facilities .....	456,000	456,000
<b>Recapitalization:</b>		
Infrastructure and safety .....	447,657	447,657
Capability based investments .....	135,341	109,057
Unjustified program growth .....		[-26,284]
<b>Total, Recapitalization .....</b>	<b>582,998</b>	<b>556,714</b>
<b>Construction:</b>		
19-D-670, 138kV Power Transmission System Replacement, NNSS .....	6,000	6,000
18-D-690, Lithium Processing Facility, Y-12 (formerly Lithium Production Capability, Y-12) .....	32,000	39,000
Program increase .....		[7,000]
18-D-650, Tritium Finishing Facility, SRS .....	27,000	27,000
17-D-640, U1a Complex Enhancements Project, NNSS .....	35,000	35,000
15-D-612, Emergency Operations Center, LLNL .....	5,000	5,000
15-D-611, Emergency Operations Center, SNL .....	4,000	4,000
15-D-301, HE Science & Engineering Facility, PX .....	123,000	123,000
06-D-141 Uranium processing facility Y-12, Oak Ridge, TN .....	745,000	745,000
04-D-125, Chemistry and Metallurgy Research Replacement Project, LANL .....	168,444	168,444
<b>Total, Construction .....</b>	<b>1,145,444</b>	<b>1,152,444</b>
<b>Total, Infrastructure and operations .....</b>	<b>3,208,442</b>	<b>3,145,158</b>
<b>Secure transportation asset</b>		
Operations and equipment .....	209,502	209,502
Program direction .....	107,660	107,660
<b>Total, Secure transportation asset .....</b>	<b>317,162</b>	<b>317,162</b>
<b>Defense nuclear security</b>		
Operations and maintenance .....	778,213	750,000
Excess to need .....		[-28,213]
<b>Total, Defense nuclear security .....</b>	<b>778,213</b>	<b>750,000</b>
Information technology and cybersecurity .....	309,362	309,362
Legacy contractor pensions .....	91,200	91,200
<b>Total, Weapons Activities .....</b>	<b>12,408,603</b>	<b>11,807,074</b>
<b>Defense Nuclear Nonproliferation</b>		
<b>Defense Nuclear Nonproliferation Programs</b>		
<b>Global material security</b>		
International nuclear security .....	48,839	48,839
Domestic radiological security .....	90,513	90,513
International radiological security .....	60,827	80,827
Secure additional radiologic materials .....		[20,000]
Nuclear smuggling detection and deterrence .....	142,171	142,171
<b>Total, Global material security .....</b>	<b>342,350</b>	<b>362,350</b>
<b>Material management and minimization</b>		
HEU reactor conversion .....	114,000	114,000
Nuclear material removal .....	32,925	32,925
Material disposition .....	186,608	186,608
<b>Total, Material management &amp; minimization .....</b>	<b>333,533</b>	<b>333,533</b>
Nonproliferation and arms control .....	137,267	137,267
Defense nuclear nonproliferation R&D .....	495,357	525,357
Proliferation detection research .....		[15,000]
Additional verification and detection effort .....		[15,000]
<b>Nonproliferation Construction:</b>		
18-D-150 Surplus Plutonium Disposition Project .....	79,000	79,000
99-D-143 Mixed Oxide (MOX) Fuel Fabrication Facility, SRS .....	220,000	213,500
Program decrease .....		[-6,500]
<b>Total, Nonproliferation construction .....</b>	<b>299,000</b>	<b>292,500</b>
<b>Total, Defense Nuclear Nonproliferation Programs .....</b>	<b>1,607,507</b>	<b>1,651,007</b>

**SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS**  
(In Thousands of Dollars)

<b>Program</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<i>Legacy contractor pensions</i> .....	13,700	13,700
<i>Nuclear counterterrorism and incident response program</i> .....	372,095	340,380
<i>Unjustified cost growth</i> .....		[-31,715]
<b>Total, Defense Nuclear Nonproliferation</b> .....	<b>1,993,302</b>	<b>2,005,087</b>
<b>Naval Reactors</b>		
<i>Naval reactors development</i> .....	531,205	514,951
<i>Unjustified growth</i> .....		[-16,254]
<i>Columbia-Class reactor systems development</i> .....	75,500	75,500
<i>SSG Prototype refueling</i> .....	155,000	155,000
<i>Naval reactors operations and infrastructure</i> .....	553,591	553,591
<b>Construction:</b>		
20-D-931, KL Fuel Development Laboratory .....	23,700	23,700
19-D-930, KS Overhead Piping .....	20,900	20,900
14-D-901 Spent fuel handling recapitalization project, NRF .....	238,000	238,000
<b>Total, Construction</b> .....	<b>282,600</b>	<b>282,600</b>
<i>Program direction</i> .....	50,500	50,500
<b>Total, Naval Reactors</b> .....	<b>1,648,396</b>	<b>1,632,142</b>
<b>Federal Salaries And Expenses</b>		
<i>Program direction</i> .....	434,699	410,000
<i>Unjustified growth</i> .....		[-24,699]
<b>Total, Office Of The Administrator</b> .....	<b>434,699</b>	<b>410,000</b>
<b>Defense Environmental Cleanup</b>		
<b>Closure sites:</b>		
<i>Closure sites administration</i> .....	4,987	4,987
<b>Richland:</b>		
<i>River corridor and other cleanup operations</i> .....	139,750	139,750
<i>Central plateau remediation</i> .....	472,949	522,949
<i>Program increase</i> .....		[50,000]
<i>Richland community and regulatory support</i> .....	5,121	5,121
<b>Construction:</b>		
18-D-404 WESF Modifications and Capsule Storage .....	11,000	11,000
<b>Total, Construction</b> .....	<b>11,000</b>	<b>11,000</b>
<b>Total, Hanford site</b> .....	<b>628,820</b>	<b>678,820</b>
<b>Office of River Protection:</b>		
<i>Waste Treatment Immobilization Plant Commissioning</i> .....	15,000	15,000
<i>Rad liquid tank waste stabilization and disposition</i> .....	677,460	705,460
<i>Program increase</i> .....		[28,000]
<b>Construction:</b>		
18-D-16 Waste treatment and immobilization plant—LBL/Direct feed LAW .....	640,000	640,000
01-D-16 D, High-level waste facility .....	30,000	30,000
01-D-16 E—Pretreatment Facility .....	20,000	20,000
<b>Total, Construction</b> .....	<b>690,000</b>	<b>690,000</b>
<i>ORP Low-level waste offsite disposal</i> .....	10,000	10,000
<b>Total, Office of River Protection</b> .....	<b>1,392,460</b>	<b>1,420,460</b>
<b>Idaho National Laboratory:</b>		
<i>Idaho cleanup and waste disposition</i> .....	331,354	331,354
<i>Idaho community and regulatory support</i> .....	3,500	3,500
<b>Total, Idaho National Laboratory</b> .....	<b>334,854</b>	<b>334,854</b>
<b>NNSA sites and Nevada off-sites</b>		
<i>Lawrence Livermore National Laboratory</i> .....	1,727	1,727
<i>LLNL Excess facilities R&amp;D</i> .....	128,000	128,000
<b>Nuclear facility D &amp; D</b>		
<i>Separations Process Research Unit</i> .....	15,300	15,300
<i>Nevada</i> .....	60,737	60,737
<i>Sandia National Laboratories</i> .....	2,652	2,652
<i>Los Alamos National Laboratory</i> .....	195,462	195,462

**SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS**  
(In Thousands of Dollars)

<b>Program</b>	<b>FY 2020 Request</b>	<b>House Authorized</b>
<b>Total, NNSA sites and Nevada off-sites</b> .....	<b>403,878</b>	<b>403,878</b>
<b>Oak Ridge Reservation:</b>		
OR Nuclear facility D & D .....	93,693	93,693
<b>Total, OR Nuclear facility D &amp; D</b> .....	<b>93,693</b>	<b>93,693</b>
U233 Disposition Program .....	45,000	45,000
<b>OR cleanup and waste disposition</b>		
OR cleanup and disposition .....	82,000	82,000
<b>Construction:</b>		
17-D-401 On-site waste disposal facility .....	15,269	15,269
14-D-403 Outfall 200 Mercury Treatment Facility .....	49,000	49,000
<b>Total, Construction</b> .....	<b>64,269</b>	<b>64,269</b>
<b>Total, OR cleanup and waste disposition</b> .....	<b>146,269</b>	<b>146,269</b>
OR community & regulatory support .....	4,819	4,819
OR technology development and deployment .....	3,000	3,000
OR Excess facilities D&D .....	0	0
<b>Total, Oak Ridge Reservation</b> .....	<b>292,781</b>	<b>292,781</b>
<b>Savannah River Sites:</b>		
<b>Savannah River risk management operations</b>		
Savannah River risk management operations .....	490,613	515,613
Program increase .....		[25,000]
<b>Construction:</b>		
18-D-402, Emergency Operations Center .....	6,792	6,792
<b>Total, risk management operations</b> .....	<b>497,405</b>	<b>522,405</b>
SR community and regulatory support .....	4,749	11,249
Program increase .....		[6,500]
Radioactive liquid tank waste stabilization and disposition .....	797,706	797,706
<b>Construction:</b>		
20-D-402 Advanced Manufacturing Collaborative Facility (AMC) .....	50,000	50,000
20-D-401 Saltstone Disposal Unit #10, 11, 12 .....	500	500
18-D-402 Saltstone Disposal Unit #8/9 .....	51,750	51,750
17-D-402 Saltstone Disposal Unit #7 .....	40,034	40,034
05-D-405 Salt waste processing facility, Savannah River Site .....	20,988	20,988
<b>Total, Construction</b> .....	<b>163,272</b>	<b>163,272</b>
<b>Total, Savannah River site</b> .....	<b>1,463,132</b>	<b>1,494,632</b>
<b>Waste Isolation Pilot Plant</b>		
Waste Isolation Pilot Plant .....	299,088	299,088
<b>Construction:</b>		
15-D-411 Safety significant confinement ventilation system, WIPP .....	58,054	58,054
15-D-412 Exhaust shaft, WIPP .....	34,500	34,500
<b>Total, Construction</b> .....	<b>92,554</b>	<b>92,554</b>
<b>Total, Waste Isolation Pilot Plant</b> .....	<b>391,642</b>	<b>391,642</b>
Program direction .....	278,908	278,908
Program support .....	12,979	12,979
<b>Safeguards and Security</b>		
Safeguards and Security .....	317,622	317,622
<b>Total, Safeguards and Security</b> .....	<b>317,622</b>	<b>317,622</b>
Use of prior year balances .....	-15,562	-15,562
<b>Total, Defense Environmental Cleanup</b> .....	<b>5,506,501</b>	<b>5,616,001</b>
<b>Other Defense Activities</b>		
<b>Environment, health, safety and security</b>		
Environment, health, safety and security .....	139,628	139,628
Program direction .....	72,881	72,881
<b>Total, Environment, Health, safety and security</b> .....	<b>212,509</b>	<b>212,509</b>
<b>Independent enterprise assessments</b>		
Independent enterprise assessments .....	24,068	24,068
Program direction .....	57,211	57,211
<b>Total, Independent enterprise assessments</b> .....	<b>81,279</b>	<b>81,279</b>
Specialized security activities .....	254,578	254,578

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**SEC. 4701. DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS**  
(In Thousands of Dollars)

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<i>Program</i>	<i>FY 2020 Request</i>	<i>House Authorized</i>
<b>Office of Legacy Management</b>		
<i>Legacy management .....</i>	283,767	283,767
<i>Program direction .....</i>	19,262	19,262
<b>Total, Office of Legacy Management .....</b>	<b>303,029</b>	<b>303,029</b>
<b>Defense related administrative support</b>		
<i>Chief financial officer .....</i>	54,538	54,538
<i>Chief information officer .....</i>	124,554	124,554
<b>Total, Defense related administrative support .....</b>	<b>179,092</b>	<b>179,092</b>
<i>Office of hearings and appeals .....</i>	4,852	4,852
<b>Subtotal, Other defense activities .....</b>	<b>1,035,339</b>	<b>1,035,339</b>
<b>Total, Other Defense Activities .....</b>	<b>1,035,339</b>	<b>1,035,339</b>
<b>Defense Nuclear Waste Disposal</b>		
<i>Yucca mountain and interim storage .....</i>	26,000	0
<i>Program cut .....</i>	0	[-26,000]
<b>Total, Defense Nuclear Waste Disposal .....</b>	<b>26,000</b>	<b>0</b>

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Amend the title so as to read: “A bill to authorize appropriations for fiscal year 2020 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes.”.



Union Calendar No. 88

116<sup>TH</sup> CONGRESS  
1<sup>ST</sup> Session

**H. R. 2500**

[Report No. 116-120]

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**A BILL**

To authorize appropriations for fiscal year 2020 for military activities of the Department of Defense and for military construction, to prescribe military personnel strengths for such fiscal year, and for other purposes.

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JUNE 19, 2019

Reported with amendments, committed to the Committee of the Whole House on the State of the Union, and ordered to be printed